

The background of the cover is a photograph of a modern building with a curved, metallic facade and large glass windows. A tall palm tree stands prominently on the right side, reaching towards the sky. The sky is a mix of blue and orange, suggesting a sunset or sunrise. The text is overlaid on the upper left portion of the image.

# UNLV

UNIVERSITY OF NEVADA, LAS VEGAS

## UNDERGRADUATE CATALOG

Fall 2015 – Spring 2016



# Table of Contents

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**Academic Calendar 2****Majors and Minors 3****Subject Abbreviations 6****University Community & Libraries 8****Admission Information 14****Academic Policies 23****General Education 31****Tuition and Residency 36****Fees 40****Financial Aid and Scholarships 42****Student Services & Activities 43****University Policies 54****Other Educational Opportunities 62****Graduate and Professional Programs 63****Academic Success Center 66****Lee Business School 68**

Accounting 72

Economics 75

Finance 82

Management 85

Marketing and International Business 90

**College of Education 96**

Educational Psychology and Higher Education 105

Educational and Clinical Studies 106

**Division of Educational Outreach 115****Howard R. Hughes College of Engineering 116**

Entertainment Engineering and Design 124

Aerospace Studies 127

Military Science 130

Civil and Environmental Engineering and Construction 132

Computer Science 141

Electrical and Computer Engineering 147

Mechanical Engineering 155

**College of Fine Arts 161**

School of Architecture 165

Art 177

Dance 187

Entertainment Engineering and Design 195

Film 195

Music 200

Theatre 227

**Division of Health Sciences 234**

School of Allied Health Sciences 235

Health Physics and Diagnostic Sciences 238

Kinesiology and Nutrition Sciences 247

School of Nursing 258

School of Community Health Sciences 263

**Honors College 269****William F. Harrah College of Hotel Administration 270****College of Liberal Arts 281**

Great Works Academic Certificate 282

Anthropology 284

English 289

English Language Center 296

World Languages 299

History 311

Interdisciplinary Studies 319

Philosophy 333

Political Science 337

Psychology 344

Sociology 348

**College of Sciences 353**

School of Life Sciences 357

Chemistry 373

Geoscience 381

Mathematical Sciences 388

Physics and Astronomy 395

**Greenspun College of Urban Affairs 400**

Communication Studies 402

Criminal Justice 406

School of Environmental and Public Affairs 411

Hank Greenspun School of Journalism &amp; Media Studies 423

Marriage and Family Therapy Program 427

School of Social Work 428

# Academic Calendar

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## FALL SEMESTER 2015

<b>August</b>	24	Instruction Begins
<b>September</b>	7	Labor Day Recess
<b>October</b>	17	Mid-Semester (end of the 8th week)
	30	Nevada Day Recess
<b>November</b>	11	Veterans Day Recess
	26-27	Thanksgiving Recess
<b>November</b>	30-	
<b>December</b>	5	Study Week
	5	Instruction Ends
	7-12	Final Examinations
	12	Semester Ends (16 weeks)
	15	by 4 p.m. Fall grades due
	15	Commencement

## SPRING SEMESTER 2016

<b>January</b>	18	Martin Luther King Jr. Day Recess
	19	Instruction Begins
<b>February</b>	15	Washington's Birthday Recess
<b>March</b>	12	Mid-Semester (end of the 8th week)
	21-26	Spring Break recess
<b>May</b>	2-7	Study Week
	7	Instruction ends
	9-14	Final examinations
	14	Semester Ends (17 weeks)
	14	Commencement
	17	by 4 p.m. Spring grades are due

## SUMMER SESSION I 2016

<b>May</b>	16	Instruction Begins
	30	Memorial Day Recess
<b>June</b>	3	Instruction Ends
	7	by 4 p.m. Summer Session I grades are due

## SUMMER SESSION II 2016

<b>June</b>	6	Instruction Begins
<b>July</b>	4	Independence Day Recess
	8	Instruction Ends
	12	by 4 p.m. Summer Session II grades are due

## SUMMER SESSION III 2016

<b>July</b>	11	Instruction Begins
<b>August</b>	12	Instruction Ends
	16	by 4 p.m. Summer Session III grades are due

# Majors & Minors

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Undergraduate students may choose from any of the academic degrees and majors listed below. Students interested in advanced degrees should refer to the Graduate Catalog.

## **Lee Business School**

### **BACHELOR OF ARTS**

Economics

### **BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION**

Accounting  
Economics  
Entrepreneurship  
Finance  
Information Management  
International Business  
Management  
Management Information Systems  
Marketing  
Real Estate and Urban Economics

### **MINORS**

Accounting  
Auditing  
Business Administration (for non-business majors only)  
Business Analytics  
Economics  
Entrepreneurship  
Finance  
Information Management  
International Business  
Management  
Marketing  
Real Estate  
Risk Management and Insurance

## **College of Education**

### **BACHELOR OF ARTS IN EDUCATION**

Elementary Education  
Secondary Education  
Special Education  
Workforce Education

### **BACHELOR OF SCIENCE IN EDUCATION**

Early Childhood Education  
Elementary Education  
Human Services  
Secondary Education  
Special Education

### **PROFESSIONAL DEVELOPMENT DEGREE**

Professional Development

### **MINORS**

Addictions Prevention  
Addictions Treatment  
Problem Compulsive Gambling  
Human Services Counseling  
Leadership and Civic Engagement  
Secondary Education  
Special Education

## **College of Engineering, Howard R. Hughes**

### **BACHELOR OF ARTS**

Computer Science

### **BACHELOR OF SCIENCE**

Computer Science  
Construction Management  
Entertainment Engineering and Design

### **BACHELOR OF SCIENCE IN ENGINEERING**

Civil Engineering  
Computer Engineering  
Electrical Engineering  
Mechanical Engineering

### **DEPARTMENT OF MILITARY SCIENCE**

### **MINORS**

Aerospace Studies  
Computer Science  
Engineering Science  
Information Technology  
Military Science  
Solar & Renewable Energy  
Technology Commercialization  
Unmanned Aircraft System (USA)

## **College of Fine Arts**

### **BACHELOR OF ARTS**

Art  
Art History  
Dance  
Film  
Music  
Theater

### **BACHELOR OF FINE ARTS**

Art  
Dance

### **BACHELOR OF LANDSCAPE ARCHITECTURE**

Landscape Architecture

### **BACHELOR OF MUSIC**

Music

#### BACHELOR OF SCIENCE

Architecture  
Entertainment Engineering and Design  
Graphic Design & Media  
Interior Architecture and Design

#### MINORS

Art History  
Dance  
Film  
Landscape Studies  
Music  
Pilates Instruction  
Theater

### **Division of Health Sciences**

#### BACHELOR OF SCIENCE

Athletic Training  
Comprehensive Medical Imaging  
Health Care Administration  
Health Physics  
Kinesiological Sciences  
Nuclear Medicine  
Nursing  
Nutrition Sciences  
Public Health

#### MINORS

Community Health Education  
Health Physics  
Kinesiology  
School Health Education

#### CERTIFICATE PROGRAMS

Radiography

### **College of Hotel Administration, William F. Harrah**

#### BACHELOR OF SCIENCE

Hospitality Management

### **College of Liberal Arts**

#### BACHELOR OF ARTS

Afro-American Studies  
Anthropology  
English  
French  
German  
History  
Philosophy  
Philosophy, Law and Justice  
Political Science  
Psychology  
Romance Languages  
Sociology  
Spanish  
Spanish for the Professions  
Gender and Sexuality Studies

#### MINORS

Afro-American Studies  
American Indian & Indigenous Studies  
Anthropology  
Chinese  
Classical Studies  
Creative Writing  
English  
French Studies  
German Studies  
Gerontology  
History  
Italian Studies  
Japanese Studies  
Philosophy  
Philosophy, Law and Justice  
Political Science  
Professional Writing  
Psychology  
Sociology  
Spanish  
Spanish for the Professions  
Gender and Sexuality Studies

#### ACADEMIC CERTIFICATES

Great Works

#### BACHELOR OF ARTS

Interdisciplinary Degree Programs:  
Afro-American Studies  
Asian Studies  
Interdisciplinary Studies  
Latin American Studies  
Multidisciplinary Studies  
Social Science Studies  
Gender and Sexuality Studies

#### MINORS

Interdisciplinary Degree Programs:  
Asian Studies  
Gerontology  
Latin American Studies  
Latina/o Studies  
Gender and Sexuality Studies

### **College of Sciences**

#### BACHELOR OF ARTS

Chemistry  
Mathematical Sciences

#### BACHELOR OF SCIENCE

Biochemistry  
Biological Sciences  
Chemistry  
Earth and Environmental Science  
Geology  
Mathematical Sciences  
Physics  
Preprofessional Biomedical Sciences

PROFESSIONAL DEVELOPMENT DEGREE

Professional Development

MINORS

Actuarial Science  
Biological Sciences  
Chemistry  
Earth Science  
Geology  
Mathematics  
Physical Geography  
Physics  
Statistics

**College of Urban Affairs, Greenspun**

BACHELOR OF ARTS

Communication Studies  
Criminal Justice  
Environmental Studies  
Journalism and Media Studies

BACHELOR OF SCIENCE

Environmental Studies  
Public Administration

BACHELOR OF SOCIAL WORK

MINORS

Communication Studies  
Criminal Justice  
Environmental Studies  
Family Studies  
Journalism and Media Studies

# Course Numbers & Subject Abbreviations

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## Course Numbers

Lower-division courses	100–299
Upper-division courses	300–499
Graduate and Professional courses	500–799

**NOTE:** An undergraduate student who has the consent of the instructor and college dean may obtain undergraduate credit for courses numbered 500-799. Details are listed in the Graduate Catalog. Graduate students expecting to utilize undergraduate courses in advanced degree programs should refer to the *Graduate Catalog*.

## Subject Abbreviations

### Business

Accounting .....	ACC
Business Global Entrepreneurships Scholars .....	BGES
Business Law .....	BLW
Business Administration .....	BUS
Economics .....	ECON
Finance .....	FIN
International Business .....	IB
Management .....	MGT
Management Information Systems .....	IS
Marketing .....	MKT
Real Estate .....	RE
Supply Chain Management .....	SCM

### Education

Counselor Education .....	CED
College of Education .....	COE
Early Childhood Education .....	ECE
Educational Psychology .....	EPY
Career and Technical Education .....	EDCT
Elementary Education .....	EDEL
Education Middle School .....	EDMS
Education Reading and Language .....	EDRL
Education Secondary .....	EDSC
Special Education .....	EDSP
Education .....	EDU
Education Leadership .....	EDUC
Workforce Education .....	EDWF
Special Education .....	ESP
Physical Education .....	PED
Physical Education Activities .....	PEX

## Engineering

Aerospace Studies .....	AES
Civil Engineering .....	CEE
Construction Management .....	CEM
Computer Engineering .....	CpE
Computer Science .....	CS
Electrical Engineering .....	EE
Engineering .....	EGG
Entertainment Engineering and Design .....	EED
Mechanical Engineering .....	ME
Military Science .....	MIL

## Fine Arts

Applied Music .....	MUSA
Architecture .....	AAE
Architecture Building Science .....	ABS
Architecture Design .....	AAD
Art .....	ART
College of Fine Arts .....	CFA
Dance .....	DAN
Entertainment Engineering and Design .....	EED
Film .....	FIS
Interior Architecture .....	AAI
Landscape Architecture .....	AAL
Landscape Architecture .....	LAND
Music .....	MUS
Music Ensemble .....	MUSE
Theatre .....	THTR
Urban Planning .....	AAP

## Graduate College

Graduate .....	GRA
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## Division of Health Sciences

Clinical Laboratory Sciences .....	CLS
Comprehensive Medical Imaging .....	CMI
Health Care Administration .....	HCA
Health Education .....	HED
Health Physics .....	HPS
Health Sciences .....	HSC
Kinesiology .....	KIN
Nuclear Medicine .....	NUC
Nursing .....	NURS
Nutrition .....	NUTR
School of Community Health Science .....	PBH
Radiography .....	RAD
Kinesiology and Nutrition Sciences .....	SIM

### **Honors College**

Honors..... HON

### **Hotel Administration**

Food and Beverage Management ..... FAB  
Gaming Management ..... GAM  
Hotel Management..... HMD  
Tourism and Convention Administration..... TCA

### **Liberal Arts**

Afro-American Studies..... AAS  
Anthropology ..... ANTH  
Asian Studies..... AIS  
Chinese ..... CHI  
Classics ..... CLA  
College of Liberal Arts ..... COLA  
Cultural Studies..... CST  
English ..... ENG  
English as a Second Language ..... ESL  
French ..... FREN  
German ..... GER  
Greek..... GRE  
Great Works..... GWK  
History ..... HIST  
Interdisciplinary Studies ..... IDS  
Italian ..... ITAL  
Japanese ..... JPN  
Latin..... LAT  
Latin American Studies..... LAS  
Philosophy ..... PHIL  
Political Science..... PSC  
Psychology..... PSY  
Sociology ..... SOC  
Spanish ..... SPAN  
Gender and Sexuality Studies ..... WMST

### **Sciences**

Astronomy ..... AST  
Biological Sciences ..... BIOL  
Chemistry..... CHEM  
Environmental Science ..... ENS  
Geography ..... GEOG  
Geology ..... GEOL  
Mathematical Sciences ..... MATH  
Physics ..... PHYS  
Sciences ..... SCI  
Statistics ..... STAT

### **Urban Affairs**

Communication Studies ..... COM  
Criminal Justice..... CRJ  
Environmental Studies..... ENV  
Family Studies ..... MFT  
Greenspun Service Course..... GSC  
Journalism and Media Studies ..... JOUR  
Natural Resources and Environmental Science ..... NRES  
Public Administration ..... PUA  
Social Work..... SW



# University Community & Libraries

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**UNLV Mission Statement:** The University of Nevada, Las Vegas-, is a research institution committed to rigorous educational programs and the highest standards of a liberal education. We produce accomplished graduates who are well prepared to enter the work force or to continue their education in graduate and professional programs. Our faculty, students, and staff enthusiastically confront the challenges of economic and cultural diversification, urban growth, social justice, and sustainability. Our commitment to our dynamic region and State centrally influences our research and education programs, which improves our local communities. Our commitment to the national and international communities ensures that our research and educational programs engage both traditional and innovative areas of study and global concerns. UNLV's distinctive identity and values permeate a unique institution that brings the best of the world to our region and, in turn, produces knowledge to improve the region and the world around us.

UNLV is committed to and driven by these shared values that will guide our decision making:

- High expectations for student learning and success;
- Discovery through research, scholarship, and creative activity;
- Nurturing equity, diversity, and inclusiveness that promotes respect, support, and empowerment;
- Social, environmental, and economic sustainability;
- Strong reciprocal, and interdependent relationships between UNLV and the region around us;
- An entrepreneurial, innovative, and unconventional spirit.

[www.unlv.edu/about/mission-statement](http://www.unlv.edu/about/mission-statement)

UNLV's Core Themes are:

Core Theme 1: Student Learning and Success

Core Theme 2: Research, Scholarship, and Creative Activity

Core Theme 3: Diverse Campus Population and Engagement With the Community

UNLV accreditation: UNLV is accredited by the Northwest Commission on Colleges and Universities (NWCCU).

**Nevada System of Higher Education:** All public higher education in the state of Nevada is organized under a single governance system administered by the 13-member Nevada System of Higher Education (NSHE) Board of Regents. NSHE consists of two universities: The University of Nevada, Las Vegas and the University of Nevada, Reno; an internationally renowned research unit: The Desert Research Institute; one state college: Nevada State College, Henderson; and four community colleges: College of Southern Nevada, Las Vegas; Great Basin College, Elko; Truckee Meadows Community College, Reno; and Western Nevada College, Carson City.

The Nevada System of Higher Education enrolls more than 108,000 students in a wide range of programs from occupational and training areas to doctoral programs.

**Historical Perspective:** The first college-level classes in Southern Nevada started on an extension basis in 1951 in a spare room at Las Vegas High School. Dr. James Dickinson was the only full-time faculty member, and the student body totaled 12.

Six years later, the university was founded officially as a southern regional division of the University of Nevada by action of the Nevada Board of Regents. In the summer of 1957, the university opened its first classroom and administration building — Maude Frazier Hall.

Twenty-nine students accepted degrees at the university's first commencement ceremonies in 1964. The following year, the Nevada Legislature named the school Nevada Southern University, and the Board of Regents hired the campus' first president.

In 1968, the university was granted autonomy under the state's higher education system, giving it status equal to that of the University of Nevada, Reno. The Board of Regents approved the institution's present name in January 1969.

Continual expansion in terms of programs, facilities, and influence has characterized the university since its modest start.

Enrollment today exceeds 28,000 students. Students attend classes at an attractive 332-acre campus in metropolitan Las Vegas. Close by are homes and apartments, schools, shopping centers, restaurants, and all the conveniences of a modern cosmopolitan area.

**University Organization:** The President of UNLV acts as chief executive officer and is assisted by the Executive Vice President and Provost; the Senior Vice President for Finance and Business; Vice President for Advancement; Vice President for Diversity Initiatives and Government Affairs; Vice President for Research and Economic Development; Vice President for Student Affairs; General Counsel; and various deans, directors, and department chairs. The UNLV faculty plays an important policy-making role, with a faculty senate serving the institution. Students are represented on many of the institution's committees.

The University of Nevada, Las Vegas, is organized into the following academic units: the Colleges of Education, Engineering, Fine Arts, Honors, Hotel Administration, Liberal Arts, Sciences and Urban Affairs, the Academic Success Center, Schools of Business, Law, Dental Medicine, Allied Health Sciences, Community Health Sciences and Nursing and the Division of Educational Outreach. The Graduate College oversees masters and doctoral degree programs in a broad variety of disciplines.

In addition to the academic colleges, various other departments, divisions, and programs work cooperatively to support the major functions of the university.

**Statement of Commitment to the Recruitment of Diverse**

**Students at UNLV:** The University of Nevada, Las Vegas (UNLV), along with other high research activity public universities in the United States, recognizes that a student body that is diverse with respect to race, ethnicity, socioeconomic class background, and geography, among other dimensions of cultural difference, benefits and enriches the educational experiences of all students, faculty, and staff. Accordingly, UNLV strives to recruit students who will further enrich this diversity and to support their academic and personal success while they are a part of our campus community. The presence and achievement of racial and ethnic minority students at UNLV not only benefits these students individually, but it also enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic backgrounds are underrepresented in higher education in Nevada, who are first-generation college students, and those with demonstrated financial need.

**Statement on Diversity in the University Community:** As an institution of higher learning, UNLV represents a rich diversity of human beings among its faculty, staff, and students and is committed to aspiring to maintain a campus environment that values that

diversity. Accordingly, the university supports understanding and appreciation of all members of its community regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, gender identity, marital status, pregnancy, genetic information, veteran status, or political affiliation.

**Unlawful Harassment, Personal Discrimination, and Retaliation:** The University of Nevada, Las Vegas, affirms that students and employees are entitled to an educational and employment environment free from unlawful harassment or personal discrimination and expressly prohibits unlawful harassment or personal discrimination of any individual among the university community engaged in educational or employment pursuits based on that individual's race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, marital status, pregnancy, veteran status, or political affiliation. Further, no student or employee shall be subject to retaliation for bringing a good-faith complaint pertaining to unlawful harassment or personal discrimination or for protesting such behavior directed against another member of the university community.

**Reaffirmation of Commitment to Equal Educational and Employment Opportunity (EEO):** The University of Nevada, Las Vegas, is committed to and will provide equality of educational and employment opportunity for all persons regardless of race, sex, age, color, national origin, ethnicity, creed, religion, disability, sexual orientation, gender, marital status, pregnancy, veteran status, or political affiliation - except where sex, age, or ability represent bona fide educational or employment qualifications or where marital or veteran status are statutorily defined eligibility criteria for federal or state benefit programs. Further, the university seeks to promote campus diversity by enrolling and employing a larger number of minorities and women where these groups have historically been and continue to be under-represented within the university in relation to availability and may extend preference in initial employment to such individuals among substantially equally qualified candidates, as well as to veterans, Nevada residents, and current state employees seeking promotion.

This affirmation is published in accordance with 41 CFR 60 and is in keeping with Title VII & Title IX of the Civil Rights Act of 1964, as amended; Executive Order 11246; the Rehabilitation Act of 1973; the Vietnam Era Veterans' Readjustment Assistance Act of 1974; the Civil Rights Restoration Act of 1988; Nevada Revised Statutes; and the Code and Policies of the Board of Regents of the Nevada System of Higher Education.

To ensure that equal educational and employment opportunity exists throughout the university, a results-oriented equal opportunity/affirmative action program has been implemented to overcome the effects of past discrimination and to eliminate any artificial barriers to educational or employment opportunities for all qualified individuals that may exist in any of our programs. The university aims to achieve, within all areas of the university community, a diverse student body, faculty, and staff capable of providing for excellence in the education of its students and for the enrichment of the university community.

The University of Nevada, Las Vegas, reaffirms its commitment to equality of educational and employment opportunity in its relationships with all members of the university community and its commitment to the elimination of any documented historical and continuing underutilization of women and minorities among the student body or employee complement. The University of Nevada, Las Vegas, is committed to this program and is aware that with its implementation, positive benefits will be received from the greater

utilization and development of previously underutilized human resources.

**Accreditation:** The University of Nevada, Las Vegas is accredited by the Northwest Commission on Colleges and Universities.

Accreditation of an institution of higher education by the Northwest Commission on Colleges and Universities indicates that it meets or exceeds criteria for the assessment of institutional quality evaluated through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

Accreditation by the Northwest Commission on Colleges and Universities is not partial but applies to the institution as a whole. As such, it is not a guarantee of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance about the quality of opportunities available to students who attend the institution.

Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities  
8060 165th Avenue N.E., Suite 100  
Redmond, WA 98052  
(425) 558-4224  
[www.nwccu.org](http://www.nwccu.org)

#### **Program Accreditations:**

1. All programs at UNLV are accredited by the Northwest Commission on Colleges and Universities (NWCCU).
2. UNLV's international programs are approved by the Council on International Educational Exchange.
3. B.S. and M.S. - Accounting  
Accredited by the Association to Advance Collegiate Schools of Business
4. M.Arch. - Architecture  
Accredited by the National Architectural Accrediting Board
5. B.A., B.F.A., and M.F.A. - Art  
Accredited by the National Association of Schools of Art and Design
6. B.S. - Athletic Training  
Accredited by the Commission on Accreditation of Allied Health Education Programs
7. B.S. and M.B.A. - Business Administration
  - B.A. - Economics
  - B.S. - Economics
  - M.A. - Economics
  - B.S. - Real Estate and Urban Economics
  - B.S. - Entrepreneurship
  - B.S. - Finance
  - B.S. - International Business
  - B.S. - Management
  - B.S. - Marketing
  - M.A. - Applied Economics
  - M.S. - MIS
  - M.B.A.

- Executive M.B.A.  
Accredited by the Association to Advance Collegiate Schools of Business
8. B.S. - Computer Science  
Accredited by the Accreditation Board for Engineering and Technology
  9. B.S. - Construction Management  
Accredited by the American Council for Construction Education
  10. Didactic Program in Dietetics (part of the B.S. in Nutrition Sciences)  
Accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association  
Post-Baccalaureate Dietetic Internship  
Accredited by the Commission on Accreditation for Dietetics Education of the American Dietetic Association
  11. D.M.D. - Dental Medicine  
Accredited by the Commission on Dental Accreditation  
Residency - Advanced Education in Orthodontics and Dentofacial Orthopedics  
Accredited by the Commission on Dental Accreditation
  12. Education  
M.Ed. - School Counseling  
M.S. - Counselor Education - Clinical Mental Health Counseling  
Accredited by the Council for Accreditation of Counseling and Related Educational Programs
  13. Engineering  
The following B.S. degree programs are accredited by the Accreditation Board for Engineering and Technology:  
Civil Engineering  
Computer Engineering  
Electrical Engineering  
Mechanical Engineering
  14. B.S. - Health Care Administration  
Accredited by the Association of University Programs in Health Administration
  15. M.S. - Health Physics  
Accredited by the Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology and the Commission on Accreditation of Medical Physics Educational Programs, Inc.
  16. B.S. - Interior Architecture and Design  
Accredited by the Council of Interior Design Accreditation
  17. B.L.A. - Landscape Architecture  
Accredited by the Landscape Architecture Accrediting Board
  18. J.D. - Law  
Accredited by the American Bar Association  
Member of the Association of American Law Schools
  19. M.S. - Marriage and Family Therapy  
Accredited by the Commission on Accreditation for Marriage and Family Therapy Education of the American Association of Marriage and Family Therapy
  20. B.A., B.M., M.M., D.M.A. - Music  
Accredited by the National Association of Schools of Music
  21. B.S. - Nuclear Medicine  
Accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology
  22. B.S.N., M.S.N. D.N.P. - Nursing  
Accredited by the National League for Nursing
  23. D.P.T. - Physical Therapy  
Accredited by the Commission on Accreditation in Physical Therapy Education
  24. Ph.D. - Clinical Psychology  
Accredited by the American Psychological Association
  25. M.P.A. - Public Administration  
Accredited by the National Association of Schools of Public Affairs and Administration
  26. Certificate - Radiography  
Accredited by the Joint Review Committee on Radiologic Technology
  27. B.S. Hospitality Management, minor in Professional Golf Management  
Accredited by the Professional Golfers' Association
  28. B.S.W. and M.S.W. - Social Work  
Accredited by the Council on Social Work Education
  29. B.A., M.A. and M.F.A. - Theatre  
Accredited by the National Association of Schools of Theatre

### ***Las Vegas and the Southwest***

Las Vegas itself has many attractions. Like any other large metropolitan area, the city has fine libraries, museums, community theater, art galleries, and parks that are enjoyed and supported by more than one million local residents. As one of the fastest-growing areas in the United States, southern Nevada is an example of modern urban living.

University cultural events provide yet another form of entertainment in a city that bills itself as the "Entertainment Capital of the World." Two of the university's yearly series, the Charles Vanda Master Series and the Barrick Lecture Series, are extremely popular with students and community residents.

The Charles Vanda Master Series offers visiting performers of the caliber of Isaac Stern, Andre Segovia, the London Symphony, and Itzhak Perlman. The Barrick Lecture Series brings well-known persons to campus for free public lectures on a variety of topics. Lecturers have included Walter Cronkite, Louis Rukeyser, Benazir Bhutto, Tom Wolfe, Henry Kissinger, Jimmy Carter, Cokie Roberts, and Mark Russell. The series also has featured important academicians such as Stephen Jay Gould, George Wald, Carl Sagan, Mortimer Adler, Jane Goodall, and Richard Leakey.

Of course, any college experience includes more than the intellectual stimulation of the classroom and the physical confines of the city and campus. It also takes color and character from the university's larger environment. For UNLV, this is the Southwest.

Mild desert temperatures make outdoor recreation possible throughout the year in southern Nevada. Within a 30-mile radius lie the shores of Lake Mead, massive Hoover Dam and the Colorado River recreation area, the snow-skiing and hiking trails of 12,000-foot Mount Charleston, and a panorama of red rock mountains and eroded sandstone landscapes. In addition, the city is only four to five hours by car from the beaches of southern California and the national parks of Utah and Arizona.

Las Vegas enjoys a mild year-round climate, yet there are noticeable seasonal differences. The annual average temperature is 79 degrees, but it is not unusual for the mercury to hit the 110

degree mark during the summer and dip into the 30s in the winter. Annual rainfall amounts to only 3.5 inches, much of it falling in the winter when it is snowing in the nearby mountains.

### **Research Centers and Service Agencies**

The university has more than 60 approved centers and institutes that conduct research or provide public service. For a current listing, visit [www.unlv.edu/research/centers](http://www.unlv.edu/research/centers)

**UNLV/CSUN Preschool:** The University of Nevada, Las Vegas (UNLV)/Consolidated Students University of Nevada (CSUN) Preschool is a division of the Department of Educational & Clinical Studies. The preschool is housed in the Lynn Bennett Early Childhood Education Center on the UNLV Campus. The mission of the UNLV/CSUN Preschool is to provide a model inclusive early childhood program that serves children (6 weeks to 5 years of age) of students, faculty, staff and the surrounding campus community. [Preschool.unlv.edu](http://Preschool.unlv.edu).

**Desert Research Institute:** The Desert Research Institute (DRI) is the environmental research arm of the Nevada System of Higher Education. DRI conducts cutting-edge applied research in air, land and life, and water quality across Nevada, the United States and on every continent. With more than 500 employees and two main campuses in Reno and Las Vegas, Nevada, DRI generates \$50 million in total annual revenue. DRI's faculty members are nontenured, entrepreneurial and responsible for their own salaries from external grants and contracts. This blend of academic rigor and private-sector pragmatism has earned DRI a reputation for delivering rapid, high quality environmental science in a businesslike fashion. [www.dri.edu](http://www.dri.edu)

**Division of Educational Outreach:** Las Vegas itself has many attractions. Like any other large metropolitan area, the city has fine libraries, museums, community theater, art galleries, and parks that are enjoyed and supported by more than one million local residents. As one of the fastest-growing areas in the United States, southern Nevada is an example of modern urban living.

**Division of Research and Economic Development:** UNLV's Division of Research and Economic Development is committed to creating a campus environment that supports and promotes the performance of superior research and innovative scholarly pursuits. The division is dedicated to helping university faculty, staff, and students continue building UNLV's reputation as a nationally recognized research institution. It is our intent to help "open the doors" to research for all who wish to recognize their full creative and intellectual potential. <http://www.unlv.edu/research/>.

**English Language Center:** The English Language Center helps students make a smooth transition from their English as a second language courses to their academic studies within chosen degree programs at UNLV. In addition to a full schedule of credit classes, convenient schedules, and an advising program, the ELC offers students an opportunity to experience the language, culture, and people of the United States. <http://www.unlv.edu/elc>.

**Language Resource Center:** The center supports the English Language Center and World Languages and Cultures in language instruction by providing computers, technical support, and a variety of multimedia tools to assist and enhance both classroom instruction and self-study by language students. The center also supports UNLV as an open lab available to all students, staff, and faculty. [lrc.unlv.edu/](http://lrc.unlv.edu/).

**Marjorie Barrick Museum:** The Marjorie Barrick Museum and Donald H. Baepfer Xeric Garden are centrally located on UNLV's campus (between Lied Library and Wright Hall). The Museum and Xeric Garden offer opportunities to share in the ongoing discovery of humankind's collective heritage through an active exhibition schedule, educational programming and exciting events for all ages. Outdoors, you'll find the 1.5 acre garden, featuring drought-tolerant plants from Australia, South America, Mexico, and the Mediterranean. [www.unlv.edu/barrickmuseum](http://www.unlv.edu/barrickmuseum).

**Nevada Small Business Development Center (SBDC):** The Nevada SBDC at UNLV is a statewide resource for business assistance, providing a unique array of services, expertise, and training in all areas including starting, growth, and development of a business. The Nevada SBDC also offers information and guidance in understanding and complying with environmental regulations. In addition, the Nevada SBDC provides useful information and analysis of the economy, environment, and demographic data to help businesses, government, and other organizations promote economic growth in their communities.

This program provides guidance to entrepreneurs who are contemplating the formation of new businesses by offering practical and accessible information that can provide a path through the legal, regulatory, and business landscape. Additionally, the Nevada SBDC networks with members of a variety of local groups, including Chambers of Commerce, the tech community, and under-represented communities within the urban areas of our community.

If you would like to schedule an appointment to meet with an SBDC counselor, please call: 702-876-0003.

For more information, including a complete training calendar for the Nevada SBDC, please visit: [www.nevadasbdc.org](http://www.nevadasbdc.org)

**Oak Ridge Associated Universities:** Since 1993, students and faculty of the University of Nevada, Las Vegas, have benefited from its membership in Oak Ridge Associated Universities (ORAU), a consortium of colleges and universities and a management and operating contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tenn. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members. For more information about ORAU and its programs, contact 702-895-5980.

**Office of Information Technology:** The office supports teaching, research, scholarly and creative production, and administration through the effective management and use of information technology resources. The services provided include development and support of applications and information systems; hardware and software maintenance, repair, and replacement in teaching and research facilities as well as student laboratories; assistance with the development of instructional programs that are less restricted by time and place than those delivered by traditional means; access to the latest in instructional technology; and access to research computing resources. Additional information about the Office of Information Technology can be found at [oit.unlv.edu](http://oit.unlv.edu).



**Office of Diversity Initiatives:** The mission of the Office of Diversity Initiatives (ODI) is to provide leadership and support for UNLV's diversity mission: to nurture equity, diversity, and inclusiveness that promotes respect, support, and empowerment. ODI will accomplish this by facilitating policy creation and compliance; supporting strategies that enhance professional development, mentoring, recruitment and retention; as well as working in collaboration with campus and community partners to foster and encourage cultural competency. <http://www.unlv.edu/diversityinitiatives>.

**Summer Term:** Summer Term provides a variety of opportunities for students to achieve graduation sooner. Summer courses have the same academic content as Fall and Spring but move at a much faster pace. Many students enjoy the structure of attending courses five days a week for three to five weeks. This format enables students to immerse themselves in the subject material and advance their progress in obtaining their degree. [summerterm.unlv.edu/](http://summerterm.unlv.edu/)

**Thomas and Mack Legal Clinic:** The clinic is an interdisciplinary law office in which specially licensed law students work with graduate-level social work and education students under the supervision of law faculty to represent youth and adult clients in a variety of legal matters, including child welfare, education, juvenile justice, immigration, and criminal defense. The pedagogical, research and service goals of the clinic include fostering an understanding of the law in action and the interconnected nature of the problems and systems that operate in the lives of clients.

**UNLV Libraries:** The University Libraries define the new academic research library—bringing people and information together in innovative ways. As UNLV emerges as a leading urban research institution, the Libraries pioneer dynamic, user-focused methods of reaching, connecting, and engaging learners. The main Lied Library and three specialized branches -- Architecture Studies, Curriculum Materials, and Music libraries -- encompass 327,000 total square feet of space.

The UNLV Libraries contribute to and support learners as they discover, access, and use information effectively for academic success, research, and lifelong learning. Librarians work to prepare students not just for academic success, but for informed decision-making in careers and as citizens. Librarians work directly with students through a program of course-integrated library instruction, and with faculty on research assignment design and course preparation.

### **Library Resources & Services**

- UNLV Libraries' collections reflect the broad range of UNLV's academic programs, offering open stacks for browsing a collection of over one million print volumes and more than 750,000 electronic books
- The Libraries' website ([www.library.unlv.edu](http://www.library.unlv.edu)) connects users to both the print and digital collections, including over 300 library databases, 75,000 online and print journals, and more than 1.5 million microforms, videos, CDs, maps, and government documents
- Additional materials are available from libraries worldwide through Interlibrary Loan, BorrowItNow and Link+

- Once activated, the RebelCard serves as a library card for material checkout and renewals
- Access online resources from off-campus by logging in with an ACE Account or Library Barcode and PIN
- The Textbook Reserve Program (through a partnership with CSUN) provides short term (2-hour and some 24 hour) checkout of key textbooks from many general education courses
- Anatomical models, three dimensional molecular model kits and graphing or financial calculators are available for student checkout
- The Career Collection offers print resources related to jobs, careers, resumes, standardized tests and more with a 7-day check-out period
- The Leisure reading collection consists of recently-published fiction and non-fiction titles. Books can be checked out for three weeks at a time
- Special Collections houses unique and specialized research collections on Las Vegas, Southern Nevada, the gaming industry, and UNLV in a variety of formats, including dynamic digital collections, oral histories, films, maps, manuscripts, music scores, and architectural drawings ([library.unlv.edu/speccol](http://library.unlv.edu/speccol))

### **Research Assistance**

- Research assistance is available in a variety of ways: via text message, chat, email, by telephone, or in-person ([library.unlv.edu/ask](http://library.unlv.edu/ask))
- The Libraries have a dedicated Research Consultation Room where librarians can meet one-on-one or with small groups to discuss focusing a research topic, identifying & evaluating sources, and searching library resources effectively ([library.unlv.edu/consultation](http://library.unlv.edu/consultation))
- Every college or discipline has an assigned librarian with special subject expertise [https://www.library.unlv.edu/contact/librarians\\_by\\_subject](https://www.library.unlv.edu/contact/librarians_by_subject))
- The Libraries hosts a series of workshops each semester, on topics ranging from critical reading to creating a research poster, all aimed to support students with their research and education needs <https://www.library.unlv.edu/services/instruction/workshops>

### **Library Technology**

- More than 500 computers to access web-based information resources and productivity software
- Login to the Libraries' computers with an ACE Account and password
- Laptop computers, digital cameras, camcorders, and digital voice recorders are all available for loan
- Media Lab featuring specialized hardware and software to create multimedia projects and presentations
- Self-service printing and photocopy machines are available in the library

### **Learning Spaces**

- More than 2,500 study spaces are available including individual study spaces with quiet and silent zones
- A variety of group study spaces including many with computers for group productivity
- Four classrooms that support library instruction
- Graduate Student Commons
- Tutoring drop-in lab (in partnership with the Academic Success Center) offers FREE tutoring for a variety of UNLV courses throughout the school year ([www.unlv.edu/asc/tutoring](http://www.unlv.edu/asc/tutoring))
- Book 'N Bean - Coffee Bean & Tea Leaf coffee shop

### ***Branch Libraries***

- The Architecture Studies Library provides access to resources and reference assistance in the areas of architecture, building and construction, urban planning, landscape architecture and interior design in support of the academic needs of the School of Architecture <http://www.library.unlv.edu/arch/>
- The Curriculum Materials Library supports the teacher education programs within the UNLV College of Education as well as K-12 educators in the Las Vegas community. It houses more than 30,000 items across a wide range of collections: children's and young adult literature, professional materials for teachers, graphic novels, media, K-12 textbooks, activity kits, and more <https://www.library.unlv.edu/cml/>
- The Music Library houses a music reference collection, more than 35,000 scores and over 12,000 recordings, DVDs, and other media. The Music Library supports research, teaching, and performances of the Music Department <https://www.library.unlv.edu/music/>

**University of Nevada Press:** The University of Nevada Press publishes high-quality, deserving works that advance scholarly research, contribute to the understanding and appreciation of regional history and culture, and reach a wide range of academic and general readers. Publication is done in a fiscally responsible manner that reflects the highest editorial, design, and production standards. [www.unpress.nevada.edu/](http://www.unpress.nevada.edu/).

**Western Interstate Commission for Higher Education (WICHE):** is a regional, nonprofit organization. Membership includes the 15 western states and the U.S. Pacific Islands and Freely Associated States. WICHE and its 15 member states work to improve access to higher education and ensure student success. Its student exchange programs, regional initiatives, and research and policy work allow it to assist constituents throughout the West and beyond. Residents of WICHE states can gain affordable access to programs, states avoid costly and unnecessary duplication of programs and facilities, and colleges and universities can devote their resources to improving the quality of their educational offerings. [www.wiche.edu/](http://www.wiche.edu/)

# Admission Information

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The University of Nevada, Las Vegas, welcomes applications from all interested students. All the admission and application requirements are subject to modification by the Nevada Board of Regents and the University of Nevada, Las Vegas and are provided here as a guideline. Please refer to our website ([www.unlv.edu](http://www.unlv.edu)) for the most up-to-date requirements.

## **Statement of Commitment to the Recruitment of Diverse Students at UNLV**

The University of Nevada, Las Vegas (UNLV), along with other research-intensive public universities in the United States, recognizes that a student body that is diverse with respect to race, ethnicity, socioeconomic class background, and geography, among other dimensions of cultural difference, benefits and enriches the educational experiences of all students, faculty, and staff. Accordingly, UNLV strives to recruit students who will further enrich this diversity and to support their academic and personal success while they are a part of our campus community. The presence and achievement of racial and ethnic minority students at UNLV not only benefits these students individually, it enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic backgrounds are underrepresented in higher education in Nevada, who are first-generation college students, and those with demonstrated financial need. Refer to the "University Community and Libraries" section of this catalog or [www.unlv.edu/about/statements](http://www.unlv.edu/about/statements) to review UNLV's Reaffirmation of Commitment to Equal Educational and Employment Opportunity (EEO).

## **Undergraduate Application Requirements**

**Application Priority Consideration Dates:** The application priority consideration dates are Feb. 1 for fall semesters, and Oct. 1 for spring semesters for domestic students. To be assured full consideration, applications for admission should be received by these dates. Completed domestic applications will continue to be taken and considered up to the admissions deadline on a space-available basis. Completed international applications are subject to earlier deadlines. Visit <http://www.unlv.edu/admissions/app-deadlines.html> to view the most current dates and deadlines for domestic and international students. Students are encouraged to apply well before the posted dates.

**Admission Application:** The online application form for domestic and international applications is available through the university website. Applicants to the University of Nevada, Las Vegas, are solely responsible for submitting a completed, signed, and dated application for undergraduate admission with supporting materials and a \$60 nonrefundable application fee (\$95 for international students) to the Office of Admissions. All application materials, including transcripts, become the property of the university, are not returnable and cannot be reproduced or released to any party including the applicant.

**Official Transcripts:** High school students must submit their transcripts along with any course work in progress. Applicants who have already graduated from high school must submit their final high

school transcript that includes a date of graduation. Those applicants who have taken classes at a college or university during high school or any time before their application to UNLV must submit a separate official transcript from each institution attended regardless of whether credit was earned or not.

Official academic transcripts must be submitted in the English language and must remain in the sealed envelope provided by the issuing institution(s). Applicants who have completed coursework at a non-U.S. high school, college or university are required to have their documents evaluated and translated, if appropriate, by a National Association of Credential Evaluation Services (NACES) member. This official evaluation and translation, in addition to official copies of the documents in sealed envelopes, must be submitted to the university in order to be considered for admission. Visit [www.naces.org](http://www.naces.org) to view a list of member organizations.

Applicants who are enrolled in other educational institutions at the time of application may submit incomplete transcripts; however, final official transcripts must be submitted before final admission status may be determined. Final high school and/or college transcripts must be submitted no later than the Friday before classes start for the applicant's term of admission.

Applicants who have attended other educational institutions may not disregard such records and make application on the basis of select college transcripts. Any applicant who gains admission on the basis of incomplete or fraudulent credentials or misrepresentation in the Application for Undergraduate Admission and Scholarships shall have admission and registration canceled without refund of any fees, the total credits rescinded that have been earned following such admission, and future registration at the university prohibited. Refer to the NSHE Board of Regents Handbook, Title 4, Chapter 16, Section 9 for more information.

**Official Test Scores:** Effective Fall 2013, students seeking admission to UNLV must take the American College Test (ACT) or the Scholastic Aptitude Test (SAT) prior to admission. This requirement is not applicable to transfer students or international students who admission requirements are otherwise defined. Official test scores from a testing agency or from a high school transcript must be received by UNLV. To receive priority consideration for merit-based scholarships, official test scores should be received by UNLV prior to February 1. Students also have the option to take the ACT Residual exam through Educational Outreach to fulfill the test score requirement. ACT Residual results will only be recognized at UNLV and are not used for scholarship consideration.

**Placement Tests:** Entering freshmen are to take the American College Test (ACT) offered by the American College Testing Program, or the Scholastic Aptitude Test (SAT) offered by the College Entrance Examination Board which will be used to determine a student's placement into English and math courses. The math and English departments also offer placement tests for students who do not feel their ACT and/or SAT test scores are representative of their abilities in math and English. Placement testing may not be taken more than two year prior to matriculation.

Individual departments may require additional test scores for placement (e.g. Chemistry, English, Foreign Languages, Mathematics,

etc.). Information regarding these examinations may be obtained from the UNLV's academic departments.

**English Placement:** In order to be placed into a college-level English course (English 101), a student must earn an ACT English score of at least 21 or an SAT critical reading score of at least 510. Students who earn an ACT English score of at least 18 or an SAT critical reading score of at least 440 will be placed into English 101 Extended (two-semester course). Placement may also be determined through other formal measures. Students interested in alternate English placement should contact the English Department.

**Mathematics Placement:** In order to be placed into a college-level mathematics course, a student must achieve an ACT math score of at least 22 or an SAT math score of at least 500. New freshmen who do not obtain these scores will be required to take a math placement test prior to registration.

**Immunization Records:** Nevada state law requires that all admitted students at the University of Nevada, Las Vegas submit proof of immunization to the Office of Admissions before they may attend classes. All students regardless of age must provide documentation of immunization within the last 10 years for Tetanus Diphtheria (TD). Students born in or after 1957 must provide documentation of immunity for two doses of live measles (Rubeola), one mumps, and one Rubella vaccination. If you do not have documentation, then you will need to re-establish immunizations before you can attend classes.

Immunizations may be obtained from your physician, the UNLV Student Health Center (<http://studentlife.unlv.edu/shc/>), or the local county health district in your area. In Las Vegas, immunizations can be obtained at the Clark County Health District, located at 625 Shadow Lane.

**Residency Application:** The regulations pertaining to Nevada residency for tuition purposes are established by the Board of Regents. Each applicant claiming legal residency in Nevada must submit a residency application and the supporting documentation along with their admission application. Current enrollees or graduates of a Nevada high school are exempt from this requirement. The residency application forms can be obtained from the university website ([www.unlv.edu/admissions/residency](http://www.unlv.edu/admissions/residency)) or from the Office of Admissions.

**Requirements for International Applicants:** The university is authorized by U.S. Department of Homeland Security to admit international students on F-1 student visas. International students are subject to additional requirements that are established by the university and the U.S. Department of Homeland Security as outlined below:

1. **Proof of English Language Proficiency:** Applicants whose native language is not English must provide official proof of English proficiency to the Office of Admissions in one or more of the following ways:

- Test of English as a Foreign Language (TOEFL) score of 173 on the computer based exam (The William F. Harrah College of Hotel Administration requires 193) or a score of 61 on the iBT version (The William F. Harrah College of Hotel Administration requires 80).
- UNLV institutional Michigan Test of English Language Proficiency (MTELP) score of 76 percent (The William F. Harrah College of Hotel Administration requires 81 percent).

- International English Language Testing System (IELTS – must be academic version) with a minimum overall band of 6 with no band below 5.5 (The William F. Harrah College of Hotel Administration requires a minimum overall band of 6.5 with no band below 5.5).
- Equivalent scores on other selected English proficiency exams approved by the Office of Admission.
- Completed course work in Freshman Composition equivalent to UNLV's English 101 (grade of C or better). (The William F. Harrah College of Hotel Administration does not accept this form of English proficiency.)
- Applicants who are from the following nations are exempt from TOEFL:
  - Antigua, Australia, Bahamas, Barbados, Barbuda, Bermuda, British Virgin Islands, Canada (except Quebec), Dominica, Fiji, Irish Republic, Jamaica, New Zealand, St. Kitt & Nevis, St. Vincent & Grenadines, Singapore, Trinidad & Tobago, United Kingdom (England, Scotland, Wales, North Ireland), U.S. Virgin Islands.
- The Office of Admission may waive the test requirements if competence in the English language is clearly evident.
- THE BSN program in the School of Nursing requires a minimum TOEFL iBT score of 100.

Applicants who do not meet the proficiency requirements stated above may be admitted to the English Language Center (ELC) for appropriate course work prior to being admitted to an academic major. The ELC admits students with an intermediate level of English competence as evidenced by scores on approved tests of English language proficiency as well as transfer work from other institutions. Students may be conditionally admitted into the college of their choice, with matriculation in that college contingent upon satisfactory completion of the ESL program in the ELC.

2. **Certification of Finances:** Before the university may issue a Certificate of Eligibility (I-20), the Office of Admissions must receive a Confidential Financial Certification form indicating that the student has ready access to sufficient financial resources to fully meet all institutional and personal expenses while studying in the United States. The certification must be accompanied by a bank letter that has been signed and/or stamped by a bank official. Visit the Office of Admissions website at [www.unlv.edu/admissions/confidential-financial-certifications](http://www.unlv.edu/admissions/confidential-financial-certifications) for current information and to access the form.

3. **Health Insurance:** All UNLV F-1 visa international students are required to purchase UNLV student medical health insurance regardless of other health insurance policies they may have. The requirement to purchase the UNLV student health insurance cannot be waived. International students are automatically charged health insurance premium fees when they register for classes. Optional dental coverage and vision insurance may also be purchased.

The Office of Admissions will issue the Certificate of Eligibility (I-20/SEVIS record) to undergraduate international students who have provided the required certification of finances and who are admitted to a degree-seeking program. An I-20 cannot be issued for online degree program nor for a certificate program.



## Undergraduate Admission Requirements

The minimum academic requirements for admission to the university are described below. Please note that admission to the university may not mean admission to the program of your choice. Specific academic programs may have additional entrance requirements beyond those required for admission to the university. Applicants should consult the corresponding section of this catalog to find out about additional requirements for their major of choice.

**High School Students:** In addition to the submission of official test scores from the American College Test (ACT) or the Scholastic Aptitude Test (SAT), admission to the university requires graduation from an accredited high school with a minimum weighted grade point average of 3.00 on a 4.00 scale in the following required high school courses:

ENGLISH: Emphasis on composition; rhetoric; and  
American, English, and world literature.....4 units

MATHEMATICS: Algebra or higher-level mathematics,  
including algebra I and II, geometry, analytic  
geometry, trigonometry, precalculus, probability and  
statistics and other advanced mathematics.....3 units

NATURAL SCIENCE: (lab or simulation); Including  
biology, chemistry or physics with at least two  
years in a laboratory science .....3 units

SOCIAL SCIENCE STUDIES: Including world history,  
geography, U.S. history, economics, government,  
or law .....3 units

TOTAL .....13 units

Students who have earned the required high school courses but have not earned a minimum grade point average of 3.00 (on a 4.00 scale) may be admitted to the university if they have earned a combined score from the SAT critical reading and SAT math sections of at least 1040, or an ACT composite score of at least 22, or a Nevada Advanced High School Diploma.

**Transfer Students:** Except for in-state transfer students as described in the section “In-State Transfer Students,” admission to a four-year degree program is granted to domestic and international applicants transferring from another regionally-accredited college or university provided that 24 transferable semester credits have been completed and a minimum cumulative grade point average of 2.50 has been achieved. The applicant must be in good standing and eligible to return to the educational institution last attended (i.e., the applicant cannot be on academic or behavioral suspension).

Applicants who have attempted 23 or fewer college credits after high school graduation are subject to the high school admission requirements. The high school record must meet the minimum grade point average or other requirements as indicated in the “High School Students” section.

**In-State Transfer Students:** Applicants wishing to transfer to the University of Nevada, Las Vegas, from another institution within the Nevada System of Higher Education (NSHE) must apply for admission to UNLV in the Office of Admissions and must fulfill the same requirements as those applicants who are not enrolled within the NSHE system. Transfer students with an Associate of Arts degree,

Associate of Science degree, or Associate of Business degree from an NSHE institution with a cumulative 2.0 GPA or higher will be automatically admissible upon application to the university.

**Early (Tentative) Admission:** Early (tentative) admission consideration is given to students applying for admission while still enrolled at another institution (high school, college, or university) if their current academic record indicates that they are admissible at the time of evaluation and that they will qualify for full admission upon completion of work in progress. Full admission is granted when all final credentials from institutions previously attended have been received and evaluated by the Office of Admissions and provided the applicant still meets the minimum admission requirements. Failure to submit final documents by the deadline listed in the academic calendar may result in cancellation of admission and/or enrollment (see Readmission after Cancellation). Failure to meet the minimum admission requirements after evaluation of final course work will result in cancellation of admission and/or enrollment. Freshmen should submit a final official high school transcript indicating the date of graduation and the final semester’s grades for the work in progress at the time tentative admission was issued. Transfer students should submit a final transcript for any courses completed prior to their date of matriculation at UNLV.

**GED Recipients and Home-Schooled Students:** Applicants who received a general equivalency diploma (GED) or who have been officially excused from compulsory high school must apply for special consideration under alternative admissions. (See Alternative Admission Policy.)

**Alternative Admission Policy:** The Nevada Board of Regents has authorized the university to admit each year a limited number of deserving students who do not satisfy the university’s minimum admission requirements but who may be admissible through alternate means. Admission by alternative criteria is used for GED and Home-schooled applicants and is also an option for those applicants who are denied admission. The criteria for admission under the alternative admission program are:

- A combination of test scores and grade point average that indicate potential for success.
- Special talents and/or abilities such as, but not limited to, the visual or performing arts or athletic abilities.
- Other evidence of potential for success.
- Improvement in the high school record.
- Overcoming adversity or special hardship.
- Other special circumstances.

Applications for alternative admission criteria are reviewed by the Faculty Senate Admissions Committee. In addition to the application procedures described earlier, an applicant for alternative admission is also required to submit the documents listed below and to meet any other educational criteria that may be required by the Office of Admissions.

1. All official transcripts indicating completion of all work in progress.
2. Official standardized test scores (ACT or SAT) or other documented evidence of the necessary capability, readiness, achievement, and motivation to be successful in university-level study. In order to be official, scores must be sent directly from the testing agency or appear on an official high school transcript.
3. A personal explanation of the circumstances of previous academic performance.

4. Two letters of recommendation from an employer, educator, or responsible official.

Students admitted by the Faculty Senate Admissions Committee are required to meet with an Academic Success Center success coach at least twice during their first semester and must achieve a 2.00 grade point average for six or more baccalaureate-level credits by the end of that semester. Students who do not meet this requirement during their first semester will also be required to meet with a success coach during their second semester to develop a success plan.

**Second Baccalaureate Degree Students:** An applicant who has earned one bachelor's degree may apply for admission to earn a second bachelor's degree according to the requirements and procedures outlined for transfer students. Students who have earned a bachelor's degree from an institution other than UNLV and students who have earned a bachelor's degree from UNLV and have had a gap in their enrollment are required to submit an application for admission and \$60 (\$95 for international students) non-refundable application fee. Students who have earned a bachelor's degree from UNLV with no gap in their enrollment are not required to pay the application fee.

Students are not permitted to earn two bachelor's degrees in the same specialized discipline. Information regarding the number of credits required and the course work required for a second degree may be obtained by consulting the section on Academic Policies and the section describing the desired major in this catalog.

**Non-degree Seeking Undergraduate Student Status:** At UNLV, any person, subject to review and approval by the University, may enroll as a non-degree seeking student for purposes of personal enrichment, or professional development or to improve their academic record in order to be reconsidered for admission after denial of admission for insufficient academic credentials. Applicants who wish to enroll as a non-degree seeking student must submit an application and \$30 non-refundable application fee. Non-degree seeking students may enroll for a maximum of eight credits per semester. Although there is no limit to the total number of credits one may earn as a non-degree seeking student, no more than 24 credits may be applied toward a bachelor's degree upon admission.

High school applicants who are denied admission may enroll as non-degree seeking students. These students will be considered for admission as transfer students upon completion of 24 credits with a minimum cumulative grade point average of 2.50.

Transfer applicants denied regular admission may also enroll as non-degree seeking students. These students will be eligible for admission when the combination of their UNLV grade point average and the cumulative average of all other college or university-level course work meets the university's minimum transfer admission GPA requirement of 2.50.

Upon reaching the transfer admission requirements, these non-degree seeking students who were previously denied must submit a new application and fee in order to be reconsidered for admission.

Applicants interested in non-degree seeking graduate status should inquire with the Graduate College.

## ***Admissions Rules and Regulations***

**Admission Deferment Policy:** Students who are admitted to UNLV but wish to attend during a future term may be eligible to defer their admission. Students may defer their admission provided all of the following criteria are met:

- The student was accepted to UNLV for a fall or spring term.
- The student has no additional coursework attempted and/or completed after the term for which he/she was accepted to UNLV.
- The student wishes to defer to a term within the academic year for which the student applied.

Deferment must be declared by the appropriate deadline posted at [www.unlv.edu/admissions/defer](http://www.unlv.edu/admissions/defer)

Students who fall into any of the categories below are not eligible to defer their admission and must reapply and pay the \$60 nonrefundable application fee (\$95 for international students):

- The student was accepted for a term not in the current academic year.
- The student attempted and/or completed any additional coursework after the semester the student was accepted to UNLV.
- The student was denied admission to UNLV.
- The student would like to attend UNLV during a future semester, which is not in the same academic year for which the student applied.

**Denial of Admission:** Applicants who do not meet the university's regular admission requirements will be denied admission and may be referred to the Faculty Senate Admission Committee to be considered for admission under alternative criteria (see Alternative Admission Policy). Applicants denied admission as regular students may also enroll as non-degree seeking students until such time as a grade point average is achieved which meets the university's transfer student requirements (see Non-degree Seeking Undergraduate Student Status section).

**Returning Students:** Fully admitted degree-seeking students who are discontinued from the university due to a gap in enrollment are required to submit an application for admissions. The application should be submitted with any supporting documents to the Office of Admissions and is subject to the admissions application deadlines.

**Readmission after Cancellation:** Students whose admission is canceled must submit a new application for admission and non-refundable \$60 application fee (\$95 for international students) and updated transcripts from all institutions attended to the Office of Admissions. Upon receiving the required document(s), the application will be evaluated. If the applicant meets the university's admission requirements, a new offer of admission will be issued.

## ***Credit Evaluation Policies***

Freshmen and transfer applicants to the University of Nevada, Las Vegas may be awarded credit for previous college or university course work, certain nationally administered examinations, correspondence and extension work, and military service according to policies established by the university and the Board of Regents of the Nevada System of Higher Education. The policies are as indicated in this section.

**Previous College or University Course Work:** Students who are transferring baccalaureate-level course work from regionally accredited institutions of higher education ordinarily will be granted credit for work completed that is equivalent to courses offered at the University of Nevada, Las Vegas, or that can, upon petition, be applied to a degree in the general education core or as general elective credit. The amount of credit awarded is based upon university regulations and the guidelines below:

1. **Regionally Accredited Institutions:** To be granted credit, transfer course work must have been earned at an institution accredited by one of the eight regional accrediting associations listed below and recognized by the Council of Higher Education Accreditation (CHEA), or they must have been earned at an institution that is a candidate for accreditation by one of these associations.

- A. Middle States Association of Colleges and Schools (MSA), Middle States Commission on Higher Education
- B. New England Association of Schools and Colleges (NEASC-CIHE), Commission on Institutions of Higher Education
- C. New England Association of Schools and Colleges (NEASC-CTCI), Commission on Technical and Career Institutions
- D. North Central Association of Colleges and Schools (NCA-HLC), The Higher Learning Commission
- E. Northwest Commission on Colleges and Universities (NWCCU)
- F. Southern Association of Colleges and Schools (SACS), Commission on Colleges
- G. Western Association of Schools and Colleges (WASC-ACCJC), Accrediting Commission for Community and Junior Colleges
- H. Western Association of Schools and Colleges (WASC-ACSCU), Accrediting Commission for Senior Colleges and Universities

2. **Nationally Accredited Institutions:** Generally, credits earned at nationally accredited institutions will not be accepted by UNLV. However, credits earned in specialized institutions offering associate or bachelor degrees that are accredited (or that are candidates for accreditation) by one of the six national accrediting associations listed below and recognized by the Council for Higher Education Accreditation (CHEA) will be evaluated on an individual, course-by-course basis if requested by the student by means of petition to the Admissions Committee of the UNLV Faculty Senate.

- A. Accrediting Commission of the Distance Education and Training Council (DETC)
- B. Accrediting Council for Independent Colleges and Schools (ACICS)
- C. Association for Biblical Higher Education (ABHE), Commission on Accreditation (formerly the Accrediting Association of Bible Colleges, or AABC)
- D. Association of Advanced Rabbinical and Talmudic Schools (AARTS)
- E. Commission on Accrediting of the Association of Theological Schools in the United States and Canada (ATS)
- F. Transnational Association of Christian Colleges and Schools Accreditation Commission (TRACS)

Transfer credit from any of the six CHEA-recognized nationally accredited institutions may be granted for courses that are comparable to those offered by UNLV or by other regionally accredited colleges and universities, provided the courses are relevant to the student's academic program. A petition approved by the Admissions Committee of the UNLV Faculty Senate is required to grant transfer credit from the above nationally accredited institutions.

3. **Unaccredited Institutions:** Credits earned in U.S. institutions of higher education that are not accredited by one of the regional or national accrediting associations recognized by the Council for Higher Education Accreditation (CHEA) are not accepted in transfer by the university. The policies permitting advanced course placement and the earning of credit for nontraditional learning (see Nontraditional Credit) provide adequate opportunities for the

objective evaluation of knowledge acquired through a variety of learning experiences, including military schools.

- 4. Duplicate or excess credit is not counted toward a UNLV degree.
- 5. Transferable baccalaureate-level credit earned at a regionally accredited community or junior college may be applied toward a UNLV bachelor's degree.
- 6. Although transferable credit may be awarded at the point of admission, there is no guarantee that all transferable course work will be applicable to every degree program. However, course work that is deemed transferable at the point of admission will, at a minimum, be eligible for general elective credit.

### **Nontraditional Credit**

The following programs offer students the opportunity to earn credits through examination and military service. The maximum number of credits that may be applied toward a UNLV degree from these programs is 60. An official copy of appropriate grades/scores must be sent to the Office of Admissions directly from the school, testing service, or reporting agency.

**Advanced Placement:** Advanced placement and/or credit may be granted to entering students who have achieved appropriate scores on one or more of the Advanced Placement Tests offered by the College Entrance Examination Board (see list below). The tests are administered each year in May and are available to all high school seniors who have taken advanced-placement courses in high school and to other interested students who feel they have knowledge of the given subject being tested.

Students who receive advanced placement credit may progress to more advanced courses. Students receiving credit for advanced placement may apply these credits toward the total required for a degree. As a result, it is possible to hasten the completion of degree requirements or to enroll for course work in greater depth and breadth than would otherwise be possible.

### **UNLV courses or requirements satisfied through Advanced Placement Scores**

<b>SUBJECT</b>	<b>SCORE</b>
Art - AP Art History Test	
Art for non-art majors only (3 credits) .....	3-5
Art - AP Art Studio Test	
Art for non-art majors only (3 credits) .....	3-5
Art - AP Art Portfolio Test	
Art for non-art majors only (3 credits) .....	3-5
Art - AP Art - Drawing Test	
General Art (3 credits).....	3-5
Biological Sciences - AP Biology Test	
Science (3 credits) .....	3
BIOL 189 (4 credits no lab).....	4
BIOL 189 and either 196 or BIOL 197 with advisor evaluation (8 credits no lab)	
Can place into BIOL 103 or equivalent for laboratory credit....	5
See Biological Sciences catalog section and confer with the College of Sciences Advising Center for additional information about use of honors courses, SAT scores, AP courses and AP scores for Biological Sciences placement	
Chemistry - AP Chemistry Science Test	
CHEM 121 (4 credits no lab).....	3
CHEM 121 and 122 (8 credits no lab).....	4-5
Can place into CHEM 123 for laboratory credit	

Computer Science A - AP Computer Science Test	
CS 135 (4 credits).....	4-5
Computer Science AB-AP Computer Science Test	
CS 135 and CS 202 (7 credits).....	4-5

Economics - AP Macroeconomics Test	
General electives (3 credits) .....	3
ECON 103 (3 credits).....	4-5
Economics - AP Microeconomics Test	
General electives (3 credits) .....	3
ECON 102 (3 credits).....	4-5

English - AP Composition/Literature Test	
ENG 98.....	3
ENG 101 (3 credits).....	4-5
English - AP Language/Composition Test	
ENG 98.....	3
ENG 101 (3 credits).....	4-5
Environmental Science - AP Environmental Science	
ENS/ENV 101 (3 credits) .....	4-5

Foreign Language - AP Language/Literature Test	
Equivalent to 113; placement to 114 (3 credits).....	3
Equivalent to 113 and 114; placement to 221 (6 credits) .....	4-5

History - AP American History Test	
HIST 101 or 102T* (3 credits).....	3
HIST 101 and 102T* (6 credits) .....	4-5

\*These scores satisfy the US Constitution requirement but not the Nevada Constitution requirement and can be used for any HIST 102 requirement.

History - AP European History Test	
HIST 106T** (3 credits).....	3
HIST 106T** plus 3 credits (6 credits).....	4-5

\*\*Thesis scores does not satisfy the US Constitution requirement but can be used for any HIST 106 requirement

History - AP World History Test	
History (3 credits) .....	3-5

Human Geography	
General electives (3 credits).....	3-5

Mathematics - AP Calculus Test	
AB mathematics Gen Ed Math at level of 124 (3 credits).....	3
AB mathematics MATH 181 (4 credits) .....	4-5
BC mathematics Gen Ed Math at level of 124 (3 credits).....	3
BC mathematics MATH 181 and MATH 182 (8 credits) ....	4-5

Music - AP Music Theory Test	
Music (3 credits) .....	3

Physics - AP Physics Test	
General education science (3 credits).....	3
PHYS 151 and 152 (8 credits).....	4-5

Students must show satisfactory completion of laboratory work equivalent to PHYS 151 and 152. Inadequate lab work requires the student to take the labs in either one semester or over two semesters. Credits in PHYS 151 and 152 (8 credits) will be awarded only after the student has completed the lab requirements.

Physics B - AP Physics Algebra and Trigonometry Based Test	
General education science (3 credits).....	3

Physics C - MECH - AP Physics Calculus-Based Test	
General education science (3 credits).....	3
PHYS 180 (3 credits).....	4-5
Student must show satisfactory completion of lab work equivalent in order to earn 1 credit in PHYS 180L	

Physics C - E & M - AP Physics Calculus Based Test	
General education science (3 credits) .....	3
PHYS 181 (3 credits).....	4-5
Student must show satisfactory completion of lab work equivalent in order to earn 1 credit in PHYS 181L	

Political Science - AP US Government Test	
U S Constitution (3 credits) .....	3-5
This score does not satisfy the Nevada Constitution requirement	

Political Science - AP Government and Politics Comparative	
PSC 211 (3 credits).....	3-5
This score does not satisfy the US and Nevada Constitution requirements	

Psychology - AP Psychology Test	
PSY 101 (3 credits) .....	3-5

Statistics - AP Statistics Test	
STAT 152 (3 credits) .....	3-5

**College Level Examination Program:** Credit may be granted for the achievement of a satisfactory score on the College Level Examination Program's (CLEP) subject examinations. Satisfactory achievement on the subject examinations is defined as a score of 50 or above.

In general, CLEP examinations should be completed prior to the conclusion of the second semester at the university to avoid duplication of first year introductory courses.

### UNLV courses or requirements satisfied through CLEP Scores

CLEP Subject	Min. Score	Credits	Courses Satisfied
Accounting, Intro	50	3	ACC 201
Algebra, college	50	3	MATH 124
Algebra-Trigonometry, college	50	3	Gen Ed (Math)
American Government	50	3	Gen Ed (U.S. Constitution)
American History	50	3	Elective
American History II	50	3	Elective
*American Literature	50	3	Elective
*Analysis and Interpretation of Literature w/ Essay	50	3	Elective
Biology	50	4	BIOL 189
Business Law, Intro	50	3	BLW 273
Calculus w/elementary functions	50	3	Gen Ed (Math)
Educational Psychology, Intro	50	3	Elective
English Composition	50	3	ENG 101
English Composition with Essay	50	3	ENG LDELEC (English lower division elective)
*English Literature	50	3	Gen Ed (Humanities)
Environmental Science	50	3	ENV 100
French	50	6	FREN 113 & 114
Freshman College Comp	50	3	ENG 101



General Biology	50	3	Gen Ed (Life and Physical Science)	History	4	3	Gen Ed (Humanities)
General Chemistry	50	3	Gen Ed (Life and Physical Sciences)	History of Americas	4	3	Gen Ed (U.S. Constitution)
German	50	6	GER 113 & 114	Japanese	4	6	JPN 113 & 114
History of the U.S. I (U.S. Constitution)	50	3	HIST 101	Korean	4	6	Gen Ed (Humanities & International)
History of the U.S. II	50	3	HIST 102T**	Math	4	3	Math 124
Humanities	50	3	Elective	Music	4	3	MUS 121
Human Growth and Development	50	3	Elective	Music, GR Performance	4	3	MUS LDELEC (Music lower division elective)
Information Systems & Comp App	50	3	Elective	Music, SOL Performance	4	3	MUS LDELEC (Music lower division elective)
Macroeconomics, Intro	50	3	ECON 103	Physics	4	4	Gen Ed (Additional Science-no lab)
Microeconomics, Intro	50	3	ECON 102	Philosophy	4	3	PHIL 101
Pre-Calculus	50	3	Gen Ed (Math)	Psychology	4	3	PSY 101
Principles of Management	50	3	MGT 301	Spanish	4	6	SPAN 113 & 114
Principles of Marketing	50	3	MKT 301	Theater Arts	4	3	THTR 100
Psychology, Intro	50	3	PSY 101	Visual Arts	4	3	Gen Ed (Fine Arts)
Sociology, Intro	50	3	SOC 101				
Spanish	50	6	SPAN 113 & 114				
Trigonometry	50	3	Elective				
Western Civilization I	50	3	HIST 105				
Western Civilization II	50	3	HIST 106T**				

\*Students with these scores may petition the English Department to satisfy the English World Literature requirement of the UNLV General Education Core Curriculum.

\*\*Course denotes that a component of the course (US or NV constitution) is missing and that the course can be used to fulfill humanities General Education and HIST 102 or 106 requirements but can not fulfill US or NV Constitution requirements.

**International Baccalaureate:** Credit may be awarded for credit for each higher-level examination passed at a level of 4 or above.

#### UNLV courses or requirements satisfied through International Baccalaureate

IB Subject	Min. Score	Credits	Courses Satisfied
American History	4	3	Gen Ed (U.S. Constitution)
Anthropology, Social & Cultural	4	3	ANTH 101
Arabic	4	6	GER 113 & 114
Business and Management	4	3	MGT LDELEC (Management lower division elective)
Biology	4	4	BIOL 189
Chemistry	4	4	Gen Ed (Additional Science-non lab)
	5	4	CHEM 121T (CHEM 121 without lab)
	6	8	CHEM 121T & 122T (CHEM 121 & 122 without lab)
Chinese	4	6	CHI 113 & 114
Computer Science	4	3	CS LDELEC (Computer Science lower division elective)
Design Technology	4	3	AAD LDELEC (Architecture Design lower division elective)
Economics	4	3	Gen Ed (Social Science)
European History	4	3	Gen Ed (Humanities)
English Literature	4	3	Gen Ed (Humanities)
Economics: Macroeconomics	4	3	Gen Ed (Social Science)
Economics: Microeconomics	4	3	Gen Ed (Social Science)
English Composition	4	3	ENG 101
French	4	6	FREN 113 & 114
Geography	4	3	Gen Ed (Social Science)
Hindi	4	6	Gen Ed (Humanities & International)

**DANTES:** Credit may be awarded for credit for each examination passed at the minimum score or requirement needed for that particular exam. Official transcripts of a student's exams may be presented to appropriate departments to determine whether performance satisfies specific university, college, or department requirements. Departments may evaluate exams individually or establish equivalent grade policies. The department that offers the UNLV course will determine if the exams satisfies a university requirement. If the requirement is programmatic, the department and college offering the program will make the determination.

**Correspondence, Extension, and U.S. Armed Forces Institute Courses:** The university awards up to a maximum of 15 semester hours of credit for acceptable correspondence, extension, or USAFI courses. Credit awarded for such work is not considered resident credit.

**Military Service:** Honorably discharged veterans having served a minimum of 12 months active duty in the U.S. military service may, upon request, be granted physical education credit. To obtain credit, a copy of the Report of Separation, Form DD 214, should be presented to the Office of Admissions when applying for admission. A maximum of four semester credits will be awarded. Please note that this credit is not considered "resident credit" nor is it considered credit from a four year institution.

**Servicemembers Opportunity Colleges:** UNLV has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 1,275 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, UNLV recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the Armed Services, the Office of the Secretary of Defense, and a consortium of 13 leading national higher-education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

UNLV will NOT accept the following types of credit:

- Credit awarded by post secondary institutions for life experience.
- Credit awarded for courses taken at non-collegiate institutions unless otherwise stated above (e.g., governmental agencies, corporations, industrial firms, etc.).
- Credit awarded by post secondary institutions for non-credit courses, workshops and seminars offered by other post-secondary institutions as part of continuing education programs.

## **Nevada System of Higher Education Transfer Rights and Responsibilities for Students and Institution**

Transfer credit for courses taken at other NSHE Institutions is governed by policies established in the Board of Regents Handbook, Title 4, Chapter 14, Sections 13, 14 and 15. For transferring course work from other NSHE institutions

- A. The completion of the associate of arts, associate of science, and associate of business degree at a community college automatically fulfills the lower-division general education requirements at any other NSHE institution (Section 13.1.a).
- B. Baccalaureate level courses included as part of the associate of arts, associate of science, or associate of business degree will transfer to any other NSHE institution at a minimum as general elective credit (Section 13.1.d).
- C. Completion of the associate of arts, associate of science, or the associate of business degree does not guarantee satisfaction of all state college or university lower-division requirements except for the lower-division general education requirements (Section 13.1.e)
- D. All undergraduate courses in the NSHE must be common course numbered with equivalent courses offered throughout the System. An NSHE transfer guide or common course numbering master file shall be maintained by the Office of the Chancellor and published on the Web. (Sections 14.1 and 14.2)
- E. Each institution shall determine the acceptability of general elective transfer credits, and departmental, college, or other requirements or equivalents shall be forwarded to the appropriate department or college for course evaluation. If general elective credit is granted by one institution, then all institutions shall accept the credit. Appropriate consultation with the faculty is encouraged throughout the evaluation process (Section 15.4).

In Title 4, Chapter 14, Section 15.12, the Board of Regents mandated that there be a NSHE website outlining the transfer process and protections given to baccalaureate degree-seeking students. The following presents the policies and procedures that govern student transfers between NSHE institutions. It is intended to inform students of their rights and responsibilities and affirm institutional responsibilities. Students and institutional representatives should follow these policies when making transfer-related decisions.

### **Student Rights**

Students have the right to:

- Receive automatic fulfillment of lower-division general education requirements at the universities, state college, and community colleges that offer select baccalaureate degrees upon completion of an Associate of Arts, Associate of Science, or an Associate of Business degree from a NSHE community college.

- Access information from the community colleges, state college, and universities about their transfer admission requirements, including documents required for admission, housing, and information about the institution's costs, financial aid, and student services.
- Access information about the transfer of specific courses, credit hours, grades, and degree requirements. This includes information about transferring courses with grades below a "C," courses students may have repeated, and credit previously granted by examination.
- Access and receive admission and transfer-related decisions in writing (electronic or paper) specifically:
  - Acceptance by the community colleges (limited access programs only), state college, and the universities.
  - Evaluation of courses and credits accepted for transfer credit and their course equivalencies, if applicable.
  - Outline of transfer courses and requirements which the transferred courses or credits will satisfy for the degree or program sought.
  - Analysis of the number of semester credits required to complete a degree in the chosen major program of study.
  - The NSHE institution's appeals process for transfer-related decisions.
- Appeal any NSHE institution's transfer-related decision. The appeal process will be developed and maintained by each NSHE institution and published on the institutions' website.
- Elect to graduate under the course catalog graduation requirements under any of the following options, provided that the course catalog at the time of graduation is not more than ten years old:
  - The course catalog of the year of enrollment in a baccalaureate level course/program at a NSHE community college (valid transfer contract may be required.)
  - The course catalog of the year of transfer into a baccalaureate level program at the universities, state college, or community colleges that offer select baccalaureate degrees.
  - The course catalog of the year of graduation from a NSHE institution.

**Warning:** Changing majors may change the course catalog and graduation requirements, which may increase the time to degree completion.

**Notice:** Students have all the above rights and any others as summarized in the Summary of Board of Regents Transfer Policies. The summary can be accessed at the NSHE website at <http://system.nevada.edu>. Paper copies of this document are available upon request of the institution's admission office.

### **Student Responsibilities**

Students have the responsibility to:

- Understand the transfer policies and procedures of the institution they are considering for transfer. Students should seek information from the institution they are transferring to regarding: core curriculum, prerequisites, major program requirements, degree requirements, admissions, financial aid, scholarships, housing, deadlines, restrictions, and other transfer-related criteria.
- Complete all materials required for application and submit the application on or before the published deadlines.

- Research how courses are applicable to degree and major requirements.
- Understand that if they change their major, not all courses taken will necessarily apply to their new major.
- Plan ahead and realize that appointments with advisors are necessary.
- Understand that after a break in their enrollment, status as an admitted student may be affected.

### **NSHE Institution Responsibilities**

NSHE institutions will:

- Make transfer-related policies and procedures available on their websites.
- Make answers to frequently asked questions about transfer issues accessible for students and provide opportunities for appropriate follow-up appointments to students.
- Provide information on the approximate costs of attending the institution, including tuition, books and supplies, housing, and other related fees.
- Relay admission and transfer-related decisions to students in writing (electronic or paper); including information about the student's appeal rights.
- Establish and make available upon request internal appeals processes to review transfer-related issues and decisions.
- Engage in continuous, authentic dialog among NSHE institutions about transfer-related issues with the purpose of solving the challenges before they negatively impact students.

# Academic Policies

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It is solely the student's responsibility to know and follow all university policies and procedures. Academic requirements must be met before a degree is granted. These are described in the various sections of this catalog and concern such things as curricula, majors, and minors. Advisors, and academic administrators are available to help the student understand and arrange to meet these requirements; the student is responsible for knowing what requirements must be met and for completing them. At the end of any course of study, if requirements for graduation have not been satisfied, the degree will be withheld. Institutional catalogs do not constitute contractual agreement or commitments. For this reason, it is important for each student to be acquainted with all regulations, to remain currently informed throughout the college career, and to be responsible for completing all requirements.

## Registration Policies

All registration activity is conducted through online registration, which is accessible through the university's website ([www.unlv.edu](http://www.unlv.edu)). Registration instructions and the class schedule can be accessed through this website also.

Each student is personally responsible for completing registration during the prescribed registration period. Registration is not considered complete until all fees have been paid.

**Credit Load:** The university considers 12 semester credits as the minimum full-time undergraduate credit load. The maximum credits allowed during a regular semester are 17 for freshmen level, and 18 for sophomore, junior, and senior levels.

**Credit Load for Non-degree Seeking Students:** Undergraduate non-degree seeking students are limited to a maximum of eight credits per semester with the exception of those students enrolled in UNLV-affiliated study abroad programs, in which case the maximum is 18 credits per semester. Individual exceptions to this policy may be made on a case-by-case basis by petition to the dean of the Academic Success Center. Appeal of negative decisions may be taken to the UNLV Academic Standards Committee. A total of no more than 24 credits earned while a non-degree seeking student may be applied to an undergraduate degree. The dean of a college or the Faculty Senate Academic Standards Committee may reduce a student's registration to less than the normal academic load if the student failed to earn credit in any course the previous semester. Late registrants may also be subject to credit limitations.

**Credit Load for International Students:** International students are required to register for and complete a full credit load (12 credits for undergraduates, nine credits for graduate students, and six for graduate assistants) each fall and spring semester to maintain their legal status as F-1 visa students with the Department of Homeland Security. International students may use only three credits of on-line course work towards the full credit load minimum. Federal regulations governing the full course load requirement also apply to the summer semester if it is the student's first semester at UNLV.

**Summer Credit Load:** Six credits in a five-week session is considered a full load. Loads above this cap will require an overload petition.

**Credit Overload:** Freshmen registering for more than 17 semester credits must have the approval of their advisor and dean. Sophomores, juniors, and seniors registering for more than 18 semester credits must have the approval of the advisor and dean. Petition forms for credit overloads may be obtained from the department offices and should be filed with the Enrollment Services Center prior to registration. An overload petition must be approved and be on file with the Enrollment Services Center in order to exceed the number of credits allowed for a given semester or session.

**Excess Credits:** For implications for coursework taken beyond the minimum credit requirements for a degree, without earning a degree, please see Excess Credit Fee under the Fees section of this catalog. **Late Registration:** Students who fail to complete their registration before the semester begins may register during the period of late registration. Any change in registration must be completed and paid for before the close of late registration. Late registration period begins on the first day of classes and ends at the end of the fifth day of classes. Students may freely add and drop classes, or switch sections during this period. The student will accrue late fees if:

- A student waits until the late registration period to pay all their tuition and/or fees,
- The total number of credits accumulated by the end of this period exceeds the number of credits accumulated (and paid for) by the end of the Friday before the start of classes.

**Prerequisites:** Course prerequisites are conditions that must be met before registering in a particular course. A prerequisite might be another course, a test score, a particular standing (junior, senior, etc.), and/or having declared a particular major.

**Corequisites:** Course corequisites are conditions that need to be met during the same semester that a course is being taken. In most cases, the corequisite is a lab or a discussion section. Students should enroll in the corequisite, if one exists, before attempting to enroll in the course itself.

**Auditing Classes:** Students who choose not to earn any credit or grade for a particular class can audit the class

**Changing Credit to Audit:** Students may change from credit to audit until the end of the drop period for a class.

**Changing Audit to Credit:** Students may change from audit to credit until the end of the late-registration period. In order to change from audit to credit.

In order to audit a class or make any credit to audit or audit to credit changes, students need to contact the Enrollment Services Center.

**Dropping Classes:** A student has the opportunity to drop a course up to the drop date identified in the academic calendar (which is 60% into the course). No drops will be allowed after the last day to drop or (withdraw). Those students who drop after the end of late registration will be assigned a withdraw grade, W, which will appear on the transcript but will not be calculated in the GPA. A grade of F



will be recorded for a student who stops attending class and fails to officially drop or (withdraw). A student who has officially dropped a class and who is no longer registered for credit or for audit is ineligible for further attendance in that class. If a student fails to properly drop or withdraw from classes, he or she will be subject to failing grades.

**Withdrawal From University:** Students who wish to withdraw from all classes must visit or contact the Enrollment Services Center prior to the last day to drop or withdraw for any given semester. If a student fails to properly drop or withdraw from classes, the student will be subject to failing grades.

**Cancellation of Withdrawal:** A student may petition to cancel a withdrawal from the university prior to the last day to drop or withdraw for that particular semester. A petition form for this purpose may be obtained from the Faculty Senate Website. A student who wants to re-enter the university during a subsequent semester must go through the admissions process.

**Undergraduates Taking Graduate-Level Courses:** Undergraduates who wish to enroll in graduate courses must have accumulated a minimum of 90 semester hours (see unit of credit below) of credit, with a grade point average of at least 3.00. Undergraduate students admitted to the Honors College must have accumulated a minimum of 45 semester hours of credit with a grade point average of at least 3.00. All undergraduate students wishing to take a graduate-level course must complete an "Approval for an Undergraduate to Enroll in a Graduate (600-700) Level Course" form, obtain the necessary signatures, and have it approved by the Graduate College prior to registration. No more than six hours of graduate-level courses will be allowed during one semester.

**Classroom Conduct:** Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the rights of other students to learn or of instructors to teach. Use of electronic devices such as pagers, cellular phones, or recording devices, or potentially disruptive devices or activities, are permitted only with the prior explicit consent of the instructor. The instructor may rescind permission at any time during the class.

If a student does not comply with established requirements or obstructs the functioning of the class, the instructor may initiate an administrative drop.

**Administrative Drop:** An administrative drop may be initiated at the discretion of the instructor, who will record circumstances. The approval of the dean of the college offering the course is required. Prior to a decision, the dean will consult with the student and other parties as appropriate. A request for an administrative drop must be reviewed and processed by the Office of the Registrar. It is the instructor or department's responsibility to notify the student. If the request for an administrative drop is not received by the drop date, the student will be subject to a grade for the course. Deadlines and grades are the same as for a drop initiated by the student and are based on the date received at the Office of the Registrar.

Students may appeal the administrative drop to the Faculty Senate Academic Standards Committee and the Executive Vice President and Provost. Serious cases of misconduct, as defined by the Rules and Disciplinary Procedures for Members of the University Community, will be referred to the administrative officer of the rules for appropriate action.

**Enrollment After Late-Registration Period:** Adding or switching classes after the late-registration period is allowed primarily to adjust for extenuating circumstances beyond the student's control.

After the late-registration period is over, changes may be made only when the university deems the circumstances sufficiently extraordinary to warrant an exception.

**Cancellation of Registration:** The registration of a student who is ineligible to attend the university is subject to immediate cancellation.

The university also reserves the right to cancel the registration of a student whose attendance at the university, at the review of the appropriate administrative officials, would not be mutually beneficial to that person and to the university.

**Cancellation of Classes:** The university reserves the right to cancel any class in which the enrollment is insufficient to warrant the offering of the course or for reasons beyond the university's control. The academic department offering the class will notify those registered of the cancellation.

**Class Attendance Policy:** Registration in a class obligates the student to be regular and punctual in class attendance. Students who without previous arrangement with the instructor or department fail to attend the first two class meetings of a course that meets multiple times per week or the first meeting of a class that meets one time per week may be dropped from the course. Nonattendance for a web-based course shall be defined as failure to log onto WebCampus or other instructor-designed website within one week of the course start date without previous arrangements with the instructor or department. Nonattendance does not release the student from the responsibility to officially drop any course for which they have enrolled and choose not to complete, nor from financial obligation to pay for the course.

**Class Absences:** There are no official absences from any university class. It is the student's responsibility to consult with the course instructor regarding absences from their class. Students may be dropped from classes for nonattendance during the first week of instruction.

It is the policy of the Nevada System of Higher Education to be sensitive to the religious obligations of its students. Any student missing class quizzes, examinations, or any other class or lab work because of observance of religious holidays shall be given an opportunity during that semester to make up missed work. The makeup will apply to the religious-holiday absence only. It shall be the responsibility of the student to notify the instructor within the first 14 calendar days of the semester of his or her intention to participate in religious holidays that do not fall on state holidays or periods of class recess. This policy shall not apply in the event that administering the test or examination at an alternate time would impose an undue hardship on the instructor or the university that could not reasonably have been avoided.

Any student who is denied a make-up option after appropriately notifying the instructor, shall have the right to appeal that decision through the normal appeal mechanism in place.

**Policy for Missed Work:** Students who represent the University of Nevada, Las Vegas at any official extracurricular activity shall

have the opportunity to make up any assignments or examinations missed as a result of this event. It is the responsibility of the student to provide official written notification to the instructor of the course(s) at the earliest time possible of his or her intention to participate in a university-sponsored event but no less than one week prior to the date of the missed class(es). This policy shall not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the university that could reasonably have been avoided. There should be good-faith effort by both instructor and student to come to a reasonable resolution. When disagreements regarding this policy arise, they can be appealed to the department chair, dean of the college, and the Faculty Senate Academic Standards Committee. For purposes of definition, extracurricular activities may include, but are not limited to, intercollegiate athletics, band, drama, forensics, recruitment, or any other activity sanctioned by the dean and/or the Executive Vice President and Provost.

## Records Changes

**Change of Address:** Any change of address should be reported immediately through the online registration system. Any university correspondence mailed to the last address provided by the student will discharge the university from all responsibility for notification.

**Change of Name or Gender:** Students may change their name in the university records by completing the NSHE Request to Change Personal Identification Data form and submitting copies of the appropriate supporting documentation.

## Student Classifications

**Non-Degree Seeking Student:** A non-degree seeking student is limited to a maximum of eight credits or the equivalent per semester, with the exception of those students enrolled in UNLV-affiliated Study Abroad programs in which case the maximum is 18 credits per semester. Individual exceptions to this policy may be made on a case-by-case basis by petition to the Dean of the Academic Success Center. Appeal of negative decisions may be taken to the UNLV Academic Standards Committee. A maximum of 24 credits earned while a non-degree seeking student may be applied toward a baccalaureate degree. An international student may not receive an I-20 form to maintain F-1 visa status by enrolling as a non-degree student.

**Student Standing:** Student standing is determined by the number of semester hours a student has completed. The hours required for each classification are indicated below.

Freshman	29 or fewer credits
Sophomore	30-59
Junior	60-89
Senior	90 or more credits

**Grades:** The following grade symbols are used in reporting and recording a student's proficiency in university courses:

- A – Superior
- B – Above average
- C – Average
- D – Below average
- F – Failing. Failed courses count as credits attempted.
- S – Satisfactory
- U – Unsatisfactory
- X – Hold grade

- AD – Audit
- I – Incomplete (see below)
- W – Withdrawn (issued for a drop after the end of the late registration)

**Unit of Credit:** The unit of credit, one semester hour, is generally defined as one 50-minute lecture per credit per week for a 15-week semester, corresponding to 12.5 hours per credit of lecture. Two or three laboratory hours per week, depending on the amount of outside preparation required, usually carries the same credit as one lecture semester hour. Please note that graduate courses that are cross-listed with undergraduate courses will require a graduate student to complete additional work to fulfill graduate-level course requirements as indicated on the course syllabus. This measure is established by 34 CFR §600.2, and specifically defined in 34 CFR §668.8 (l) (i) for semester hour institutions. The UNLV Registrar's office, as a participant in the University's curriculum process, ensures that all courses offered meet this requirement as established in 34 CFR §600.24.

**Incomplete Grade:** The grade of I — incomplete — can be granted when a student has satisfactorily completed at least three-fourths of the semester but for reason(s) beyond the student's control, and acceptable to the instructor, cannot complete the last part of the course, and the instructor believes that the student can finish the course without repeating it. A student who receives an I is responsible for making up whatever work was lacking at the end of the semester. The incomplete work must be made up before the end of the following regular semester. If course requirements are not completed within the time indicated, a grade of F will be recorded and the GPA will be adjusted accordingly. Students who are fulfilling an incomplete do not register for the course but make individual arrangements with the instructor who assigned the I grade.

To report the course grade, the instructor submits a grade change. Note: Grade changes will not be accepted if delivered by the student.

**Satisfactory/Fail Grading:** Certain courses are offered only on a satisfactory/fail basis, whereby the student will receive a grade of S or F rather than be graded on the ABCDF scale. A limited number of courses are offered on this S/F basis. The grade of S is not used in computing the grade point average; F grades are included in averages.

**Grade Points and Grade Point Average (GPA):** To facilitate the averaging of grades, the following values are assigned for one semester credit hour of each grade:

Point Value	
Grade.....	per Credit
A .....	4.0
A- .....	3.7
B+ .....	3.3
B .....	3.0
B- .....	2.7
C+ .....	2.3
C .....	2.0
C- .....	1.7
D+ .....	1.3
D .....	1.0
D- .....	0.7
F .....	0.0
S, I, X, W or AD.....	not computed

Grade point average is obtained by dividing the total number of points earned by the total number of semester credit hours attempted, excluding noncredit courses and courses in which the marks of S, I, U, X, W, or AD are recorded.

**Grade Point Balance:** Grade point balance (GPB) indicates how far above or below a student is from a 2.00 GPA. To compute the GPB, points are assigned as follows:

One credit of:	Points of:
A .....	+2.0
A- .....	+1.7
B+ .....	+1.3
B .....	+1.0
B- .....	+0.7
C+ .....	+0.3
C .....	0.0
C- .....	-0.3
D+ .....	-0.7
D .....	-1.0
D- .....	-1.3
F .....	-2.0

The grade point balance is an aid in helping students with grade deficiencies to determine what is needed to bring their GPA up to a 2.00 which is the minimum needed for graduation. As an example, a record with a GPB of 8 would require a minimum of eight hours of B (8 times +1.0) or four hours of A (4-times +2.0) to bring the GPA up to a 2.00.

## Academic Standing

**Academic Good Standing:** Students enrolled at the University of Nevada, Las Vegas who maintain a UNLV cumulative grade point average of a 2.00 (GPB - 0 and higher) will be considered in good standing.

**University Probation:** The university will place a student on probation if the UNLV GPA falls below a 2.00 (GPB - 0 or lower)

**Continued Probation:** Probation will be lifted as soon as the grade point balance rises to zero or above. Continued poor academic performance that leads to a grade point balance of -15 or below will result in university suspension. It is the responsibility of students on probation to seek advice from an academic advisor.

**University Suspension:** If the grade point balance of a student already warned by probation falls to -15 or below, the university will suspend the student for a minimum of one calendar year. A suspended student will not be allowed to take any UNLV credit courses. The university will suspend only at the end of a regular fall or spring semester in which the student has been on probation. University suspension automatically suspends the student from the program and college in which he or she is enrolled. An email sent to the student's official UNLV (Rebel) email address will discharge all university responsibility for notification.

If the student has already begun courses in summer session I at the time that a suspension is processed the courses in summer session I may be completed for credit. Students will be dropped from summer session II and III courses. Credits earned in Summer Session I will not take a student off university suspension even if the grade point balance reaches above -15.

**University Readmission after Suspension:** Students returning to UNLV after University Suspension, fall under three scenarios. 1) Early Appeal. Student returns from suspension through the Early Reinstatement process. Student required to meet with advisor, obtain signatures, and appeal their suspension through Faculty Senate Academic Standard Committee. Reinstatement Form. Upon receipt from Faculty Senate Registrar's office would remove suspension hold for approved appeals. Student returns exactly as they were in the system at time of suspension. No changes are made to student's major. Student were to decide to change their major, they would be required to go through the standard change of major steps with their desired major's advising center. 2) Student returns from suspension in the semester immediately following their required one year absence (No application for readmission required). Student required to submit any transcripts of courses taken elsewhere while on suspension. Student required to meet with an academic advisor (advising center removes suspension hold upon meeting with the student and creating a plan for a successful return). Student returns exactly as they were in the system at time of suspension. No changes are made to student's major. If student were to change their major, they would be required to go through the standard change of major steps with their desired major's advising center. (A student with less than 36 credits or who is undecided about the appropriate major for them, may choose to request entrance to the Academic Success Center.) 3) Students who return from suspension at any point past the semester immediately following their one year absence are discontinued for nonenrollment and required to reapply to UNLV. Student required to reapply for admission as a returning student following the directions on the admission application. Student is automatically admitted (if UNLV GPA or cumulative GPA is under 2.0, student is only able to be admitted into the ASC). The student will meet with an advisor at which point their suspension hold can be released. If a student were at a 2.0 or higher, they could select any major on their application assuming they are not also on College suspension from a specific college.

## Student Records Policies

**College Probation, Suspension, and Readmission:** If acceptable progress is not made in the program in which a student is enrolled, the student may be placed on probation or suspension at the College-level. College and department rules govern these matters, and the student is responsible for knowing the rules.

College suspension does not suspend a student from the university; however, a suspended student will not be permitted to take any UNLV credit course until the student has secured readmittance or acceptance by another college.

The college may readmit a student suspended by the college, upon application to the dean, in accordance with college and department rules.

Petitions for relief from college and department rules may be further appealed to the Faculty Senate Academic Standards Committee.

**Grade Grievance:** After final grades have been filed a grade in an undergraduate course may be changed only by the course instructor or by the Faculty Senate Academic Standards Committee. A grade grievance must be directed first to the instructor. If the student is not satisfied with the instructor's decision, the student may notify the Faculty Senate Office of the desire to file a grade grievance petition. Notice of such filing must be received by the Faculty Senate Office by the end of the second week of instruction of the semester (fall or spring) following the semester in which the grade was given. After compiling the appropriate documentation, the student files the petition and supporting documentation with the Faculty Senate



office. Documentation is then sent to the chair of the department for input by the instructor, department chair, and college dean. Upon response from the college, all materials are forwarded to the Faculty Senate Academic Standards Committee. The decision of the Academic Standards Committee will be communicated to all parties involved.

**Correcting a Grade:** An instructor may correct a clerical error on his or her grade roster by submitting a Change of Grade. The change must first be approved by the department chair and by the dean of the college. The grade change must be received within six months from the last day of the term/semester in which the original grade was given. After six months has elapsed, a petition to correct a grade must be submitted to the Faculty Senate Academic Standards Committee.

**Repeating a Course:** Any course may be repeated regardless of the grade received. Credit will be allowed only once for successful completion of the course; except for the courses designated in the catalog as allowable repeats. A student may repeat any UNLV course once at UNLV and not have the original grade included in the computation of the grade point average. When a course is repeated more than once, only the original grade is omitted in computing the grade point average. The repeat grade must be on the same grading option as the original grade. All grades will remain on the student's transcript with suitable notation to ensure an accurate academic record.

Grade reports may not initially reflect the repeated courses. Grade point averages, credits attempted, and credits earned will be manually adjusted.

The fact that UNLV has granted a degree to a student shall not preclude the student's right to repeat a course for the purpose of improving a grade. However, the repeat grade will not alter the student's permanent academic record (as it stands at the time of degree conferral).

A failed course does not have to be repeated unless the course is a university general education core requirement or a specific college or department requirement.

**Credit by Examination:** UNLV allows credit by examination for courses listed in the Undergraduate Catalog with the exception of projects, thesis, research, internship, practicum, and other courses at the discretion of the University. Credit by Examination is subject to the following regulations:

1. The student must provide evidence that they have covered the subject matter of the course as a result of having taken a comparable course in a nonaccredited educational institution or by systematic, independent study or directly pertinent occupational experience.
2. All active undergraduate students, not on probation, are eligible for credit by examination. Graduate and non-degree seeking students may not apply.
3. A maximum of 30 semester units may be obtained by departmental examination.
4. Credit earned by examination does not apply toward satisfying the minimum on-campus resident credit requirement of the institution from which graduation is sought and does not constitute an interruption of the resident credit requirement.
5. Credit by examination cannot be obtained in a course that covers at an elementary level the subject matter of a more advanced course for which the student has already received credit.

6. Credit by examination may not be obtained for a course previously completed at an accredited institution including courses previously taken at UNLV, regardless of grade.
7. Native speakers of languages other than English may not receive lower-division foreign language credit for courses in their native tongue.
8. The posting of satisfactory completed credit by examinations to the student's permanent academic record shall clearly identify that the credit was earned by examination along a grade of S (satisfactory) or U (unsatisfactory).
9. Credit by examination for variable unit courses shall not exceed 5 credits (with the exception of EDWF 135 and EDWF 477 which may be taken for up to 15 credits - additional fees apply).
10. Students are not permitted to repeat the same credit by examination. A failed course cannot be challenged by examination.

Students must request an application before taking the examination, and obtain written approval from the student's own major advisor and dean, the instructor of the course, and the department chair and dean of the college offering the course. The fee per course must be paid in advance.

Regardless of whether or not the student wants the grade recorded, the instructor will enter a grade of S/U on the Credit by Examination form and submit the form. The instructor will file the completed examination according to the instructions of the dean or department chair; these examinations may be inspected by any faculty member.

**Dual Major:** Undergraduate students may add a second major, and graduate with a dual major, provided the degree type is the same for both majors. Curriculum requirements for both majors must be satisfied. If the majors are in different colleges, the resident credit requirement must be satisfied in both colleges. The addition of a second major should be completed prior to undertaking the last 30 semester credits of work required for the degree sought. At graduation, both majors are entered on the permanent record and appear on transcripts and the diploma.

Please note: Students that wish to earn two separate degrees simultaneously fall under the dual baccalaureates policy and will need to complete all requirements from both areas of study, including an additional 30 credits of coursework, for a minimum total of 150 credits. The student must request a dual baccalaureate with the Office of the Registrar.

**Dual Baccalaureate:** Students may earn two baccalaureates, either successively or simultaneously, provided that all programmatic/curriculum requirements for both degrees are fulfilled. Additionally, courses taken for a second baccalaureate degree must include a minimum of 30 credits earned in residence beyond the minimum requirements for the first baccalaureate degree. In the case where the student will graduate with both baccalaureate degrees in the same semester, a student must apply separately for graduation for each degree, and separate payment of a graduation fee for each degree is required. In the case where a student, who was previously declared as a dual baccalaureate, has graduated with one baccalaureate degree and is returning later to earn the second baccalaureate degree at UNLV, the student must file an application for admission back into the second degree program.

The student has the option: 1) to graduate with the second baccalaureate degree according to the programmatic/curriculum requirements in the catalog of the year of the student's original enrollment for the first degree, provided that the student will graduate



with a second degree not more than 10 years after the publication of the catalog used for the first degree; or 2) to graduate according to the programmatic/curriculum requirements of the most recent catalog that is active during the semester of completion of the second baccalaureate degree. Upon completion, both degrees are entered on the permanent record and appear on transcripts. Two separate diplomas are issued.

Note: In the event that programmatic/curriculum changes for the second baccalaureate degree are implemented after the student has graduated with their first baccalaureate degree and while the student is earning credits for the second baccalaureate degree, the student may choose to graduate with the new programmatic/curriculum requirements or use an earlier catalog as previously described.

**Minor:** Minor is defined by a department within the following minimums:

1. Eighteen credit hours in subject areas (24 recommended).
2. Twelve credit hours must be at the 300- or 400-level.
3. Nine credit hours must be completed at UNLV.

Approval of the department and dean offering the minor is required.

Work must be completed by the date of graduation.

**Changing College, Major; Adding a Second Major; Adding a Minor:** Undergraduate students desiring to change their major or minor should visit the appropriate advising centers.

Each student must satisfy the course requirements of the college and major to which transfer is made, including any admission deficiencies.

A student may be accepted simultaneously in two colleges while pursuing dual undergraduate majors or dual undergraduate degrees. (See Dual Major and Dual Baccalaureate.)

Students who wish to declare a minor, arrange this at the appropriate department office or advising center.

**Study Week:** The UNLV Faculty Senate approved the following policy for Study Week:

To ensure that students have the proper time to prepare for final examinations, the week before final exams shall be designated as a study week, in which classes will meet as scheduled but during which faculty members are encouraged to refrain from giving major tests (i.e. hour-long, sit-down, written exams). The policy shall not affect such assignments as laboratory finals, performance exams (as in juries, theatre, music, dance, etc.), short quizzes, term papers, final reports, and similar activities.

**Examinations:** Instructors are responsible for the proper evaluation of enrolled students throughout the instructional period.

**Final Grades:** Each instructor is responsible for determining final grades and for submitting them by the appropriate deadlines. These grades shall become a part of the official records of the university. Grades that appear on the student's record at the end of the semester are considered final unless the student or faculty member identifies an error.

**Academic Renewal Policy:** Academic renewal is defined as one semester of UNLV course work disregarded in all calculations regarding academic standing, grade point average, and eligibility for graduation at UNLV. If summer courses are to be included in the work to be disregarded, then course work from all summer terms of the same calendar year shall count as one semester. Students granted academic renewal may not graduate with academic distinctions.

Disregarded grades may be calculated in scholarship awards or financial aid considerations.

A minimum of three consecutive years must have elapsed since the last semester of attendance at UNLV. Only semesters prior to the absence are eligible for academic renewal. Academic renewal will be granted only once during a returning student's UNLV academic career and shall be applied only to the first undergraduate degree at UNLV. Students must apply for academic renewal before they have completed 24 credits since returning to UNLV. There will be no reimbursement of fees for the disregarded semester of academic renewal. Approval of an Academic Renewal request does not constitute acceptance into a UNLV college or school. If conditions outlined in the Academic Renewal Policy are met, the student's permanent record shall be suitably annotated to indicate that work taken during the disregarded semester, even if satisfactory, will not apply toward graduation requirements. All course work will remain on the transcript, ensuring a true and accurate academic history.

A completed Academic Renewal Policy Request Form must be filed by the student. This form must be completed and signed by the student and returned to the Enrollment Service Center. The request must be submitted prior to the completion of 24 credits after returning to UNLV.

UNLV does not honor academic renewal policies from other institutions.

**Transcripts:** Current students may access their unofficial transcript in their MyUNLV Student Center. Official transcripts are copies of student academic records of all work attempted at UNLV and bear the seal of the university and a signature. Official transcripts may be requested via the online system. Transcripts of work from other institutions will not be issued.

**Student Record Retention:**

1. Grade Changes are retained indefinitely.
2. Applications for admission are retained for one year after first enrollment.
3. Transcripts from other institutions and military service records, for matriculated students, are retained three years after graduation.
4. Change of name forms are retained indefinitely.
5. Admission materials for nonmatriculated students and/or students denied admission are retained for two years.

**Retention of Records by Faculty:** All instructors are encouraged to retain records of completed course work and grades for a period of five calendar years from the date of course completion. Part-time, relocating, and retiring instructors should provide these materials to their respective departments.

**Summer Term:** Summer courses have the same academic content as the fall or spring courses with the same titles, but the summer courses move at a much faster pace.

While the courses are the same, the summer term policies are not always the same as those in fall or spring. There is a limit on the number of credits that can be taken during summer. Six credits in a five-week session is considered a full load. One credit in one week or three credits in three weeks is also considered a full load.

Summer term fees must be paid the business day before the course a student is registered for begins in order to avoid late fees. To receive a 100 percent refund a student must drop a course the business day before the course begins. If a student registers for a course and does not pay the fees due by the end of the late-payment period for the

session in which the course falls, the student will be administratively dropped still owing 50 percent of the fees for the course. The fiscal drop date for a summer term course is the date on which 20 percent of the course has passed. The academic drop for a summer term course is the date on which 60 percent of the course has passed. Summer term information can be found at [summerterm.unlv.edu](http://summerterm.unlv.edu).

## **Graduation Policies**

**Choice of Catalog to Satisfy Graduation Requirements:** A student enrolled at a Nevada System of Higher Education (NSHE) institution may elect to graduate under the catalog of the year of enrollment in a baccalaureate-level program. A student may also elect to graduate under the catalog year that was active when a student entered the university or the catalog year that is active when a student applies to graduate.

Whichever catalog is used, it cannot be more than 10 years old at the time of graduation.

The university does not guarantee the awarding of a degree based on the unchanged requirements of a particular catalog. Periodic revisions of degree requirements are made because of advances in knowledge, changes in occupational qualifications, or the expectations of accrediting authorities. If such revisions have occurred, the college dean may require a reasonable adherence to the college and department requirements of a recent or current catalog. Institutional catalogs do not constitute contractual agreement or commitments. It is the responsibility of students to keep in touch with the major department in order to learn of such requirements and to plan ahead for their completion.

**Resident Credit:** Resident credit means any course that is satisfactorily completed at UNLV, except credit earned by special examination or Distance/online courses. However, Distance/online courses, credit by special examination, or enrollment in another institution within the Nevada System of Higher Education does not constitute an interruption of resident credit.

A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in their last 30 UNLV resident credits. (Special examination, physical education activity courses, or Distance/online credits are exempted.)

Authorized exceptions to this regulation for the baccalaureate degree are:

1. A pre-medical, pre-law, or medical technology student who has completed three years of approved resident credit may complete the last 30 credits by satisfactory work in a professional school or university-approved hospital. Students who elect this option should confer with their UNLV dean and with their Advising Office well in advance of the expected transfer date and obtain prior written permission.
2. A student who has earned a minimum of three-fourths of the total degree credits in resident instruction may earn a maximum of eight acceptable transfer credits during their senior year to apply toward the degree.
3. Students in the Study Abroad Program sponsored by the UNLV Office of International Programs who have earned three-fourths of the credits at UNLV may earn a maximum of 15 acceptable transfer credits.

A waiver of the university resident credit requirement is rarely granted, unless there are extenuating circumstances involving UNLV

responsibility (e.g., requiring completion of a specific course in a student's major field and that course is not available at the UNLV campus). A petition for an exception should be submitted two semesters in advance of the expected date of graduation. No waiver will be granted unless the petition is approved by the advisor, department chair, dean, and the Faculty Senate Academic Standards Committee.

**Minimum Credits for Graduation:** The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2015 - 2016 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

**Minimum Grade Point Average for Graduation:** In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.

**Academic Distinction:** Graduation degree designations for students not participating in University or Research/Creative Honors programs are summa cum laude, magna cum laude, and cum laude. To be eligible to receive one of these designations, students must complete a minimum of 60 credits at UNLV toward a baccalaureate degree and attain the calculated GPA level for their individual college (see below). In no case will a person be eligible for summa cum laude with a GPA of less than 3.70. Students who have a combination of earned and in progress credits equaling 60, along with the appropriate GPA at the time that the commencement program goes to print, will be eligible to have their name listed with honors in the program, and their name read with honors at the commencement ceremony.

**Criteria for Academic Distinction:** The GPA ranges for graduation degree designations for each college will be established for the next academic year from the reports from the previous two years. Thus, at the end of each academic year (defined as summer, fall, and spring terms), the Office of the Registrar will prepare a rank-order list of the top 10 percent (1 percent = summa, 4 percent = magna, and 5 percent = cum) of the students graduating from each college (excluding the Graduate College). Student's whose GPAs fall on or above the set ranking will be awarded the higher designation. These ranges will be applied to August, December, and May graduations.

In the event that no student attains the GPA level required for the summa cum laude designation in a college, the student with the highest GPA in the college at the end of the year will be awarded the designation, provided that his or her GPA is 3.70 or higher.

**Academic Distinction in the Honor's College:** Students earning a minimum GPA of 3.0 in Honors courses, earning an overall UNLV GPA of 3.30, and completing all departmental/major requirements, with a min of 60 credits earned at UNLV toward a baccalaureate degree, will receive the distinction of University and/or Research/Creative Honors.

The student graduating with the highest four-year UNLV grade point average is awarded the Nevada Centennial Medallion.

**Application for Graduation:** Each undergraduate student should apply for graduation in MyUNLV beginning two semesters before their proposed date of graduation. Students must have expected

senior standing (earned credits plus credits currently enrolled in, equal to 90 or more) at the time of application. Students can refer to the Office of the Registrar's website for additional graduation and commencement information.

**Degree Completion:** All course requirements must be completed by the last day of final examinations of the candidate's final semester. All grades, including incompletes, and all transcripts of work attempted at other institutions, must be on file in the Office of the Registrar by the date that final semester grades are due. No degree, diploma, or certificate may be granted to a candidate unless all system, general core, college, and department requirements have been fulfilled. If awarded in error or upon fraudulent claims that are discovered later, the degree, diploma, or certificate will be revoked.

**Commencement Ceremony:** The university has two commencements each year, one in May and one in December. Spring graduates are recognized in the May commencement. Summer and Fall graduates are recognized in the December commencement.

Undergraduate students who are not scheduled to finish their degree programs until the summer following May commencement may be allowed, under certain circumstances, to participate in the May graduation ceremony. Students should see the Office of the Registrar for information.

**Exceptions to Academic Policies:** If extraordinary circumstances warrant waiver of an academic policy, a student may petition for relief. A decision will be made by the UNLV Faculty Senate Academic Standards Committee. The petition must first be routed to the student's advisor (who should assist in preparation), department chair, and dean.

# General Education

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## ***Nevada System of Higher Education Requirements***

The courses and number of semester credit-hours shown in this section are the minimum requirements for all students completing an associate or baccalaureate degree at any Nevada System of Higher Education (NSHE) institution. The number of courses and credits completed to satisfy the NSHE General Education requirements at the individual NSHE institutions must meet or exceed these requirements. Students completing the University of Nevada Las Vegas General Education Core and Distribution requirements will automatically satisfy the Nevada System of Higher Education General Education requirements.

The UNLV General Education curriculum and specific UNLV courses satisfying or exceeding each NSHE course requirement are described in the following catalog subsections General Education Core Requirements and General Education Distribution Requirements that are part of the catalog section titled University of Nevada, Las Vegas General Education Requirements below. Students, advisors and faculty should use the University of Nevada, Las Vegas General Education Requirements to plan, fulfill and audit students' degree programs.

Students earning a second associate of arts, associate of science, associate of business, or baccalaureate degree, whose first degree is from an NSHE institution, are not required to repeat the System requirements for general education.

As explained in the Constitutions section, evidence of completion of U.S. and Nevada Constitutions is required of all second baccalaureate degree students whose first degree is not from an NSHE institution.

The Nevada System of Higher Education requirements are:

1. **English Requirement.** 3-6 credits. To satisfy the Nevada System of Higher Education's Freshman English Composition requirement, all students must complete Freshman level English Composition including English 102. Normally, this consists of English (ENG) 101 and 102. Please see the University of Nevada, Las Vegas General Education Core Requirements for English Composition placement information.
2. **Constitutions Requirement.** For all associate and baccalaureate degrees, instruction must be given in the essentials of the Constitution of the United States and the Constitution of the State of Nevada, including the origin and history of the Constitutions and the study of and devotion to American institutions and ideals pursuant to Nevada Revised Statutes 396.500 for all associate and baccalaureate degrees. If clearly identified, this content may be included in other coursework. The UNLV catalog must identify courses that meet this requirement. Evidence of completion of U.S. and Nevada Constitutions is required of all second baccalaureate degree students whose first degree is not from an NSHE institution. Please see Constitutions Requirement in the following University of Nevada, Las Vegas General Education Core Requirements section for complete descriptions.
3. **Mathematics Requirement.** 3 credits. Three credits of a lower-division (100 or 200 level) mathematics course. Please see the General Education Core requirements section for a complete description of how this requirement is met at UNLV.

4. **Natural Science Requirement.** 6 credits. Six credits of lower-division (100 or 200 level) coursework to include at least one laboratory experience. Please see the Life and Physical Sciences and Analytical Thinking Distribution requirement in the University of Nevada, Las Vegas General Education Requirements section for a complete description of how this requirement is met at UNLV.
5. **Social Science or Humanities/Fine Arts Requirement.** 9 credits. Nine credits of lower-division (100 or 200 level) coursework in either the social sciences or humanities/fine arts. Please see the Social Sciences and Humanities and Fine Arts Distribution Requirements in the University of Nevada, Las Vegas General Education Requirements section for complete descriptions of how these requirements are met at UNLV.

## ***University of Nevada, Las Vegas General Education Requirements***

The purpose of the UNLV General Education Program is to foster student attainment of knowledge and skills that will enable them to perform better in their academic majors and in their post-graduate careers. Expected student knowledge and skills are expressed in the University Undergraduate Learning Outcomes (UULOs) that describe how students should become effective inquirers, critical thinkers, and effective oral and written communicators; participate knowledgeably and ethically in civic life; develop knowledge of the world's diverse societies; understand and integrate basic principles of natural and social sciences, humanities and fine arts into their learning; and continue their learning throughout their lives.

## ***University Undergraduate Learning Outcomes***

The UULOs articulate clear expectations for what all UNLV students should know and be able to do upon graduation. The UULOs form the foundation for general education and extend into the majors. This comprehensive approach aims to meld undergraduate learning into a more intentional, coherent experience that consists of the purposeful sequencing of learning from the first year, to the middle years, to the senior year, and includes learning within and outside the major that consists of both curricular and co-curricular experiences.

1. **Intellectual Breadth and Lifelong Learning** – Graduates are able to understand and integrate basic principles of the natural sciences, social sciences, humanities, fine arts, and health sciences, and develop skills and a desire for lifelong learning. Specific outcomes for all students include:
  - a. Demonstrate in-depth knowledge and skills in at least one major area.
  - b. Identify the fundamental principles of the natural and health sciences, social sciences, humanities and fine arts.
  - c. Apply the research methods and theoretical models of the natural and health sciences, social sciences, humanities and fine arts to define, solve, and evaluate problems.
  - d. Transfer knowledge and skills gained from general and specialized studies to new settings and complex problems.
  - e. Demonstrate life-long learning skills, including the ability to place problems in personally meaningful contexts, reflect on one's own understanding, demonstrate awareness of what needs to be learned, articulate a learning plan, and act independently on the plan using appropriate resources.



- f. Achieve success in one's chosen field or discipline, including applying persistence, motivation, interpersonal communications, leadership, goal setting, and career skills.
2. **Inquiry and Critical Thinking** – Graduates are able to identify problems, articulate questions, and use various forms of research and reasoning to guide the collection, analysis, and use of information related to those problems. Specific outcomes for all students include:
  - a. Identify problems, articulate questions or hypotheses, and determine the need for information.
  - b. Access and collect the needed information from appropriate primary and secondary sources.
  - c. Use quantitative and qualitative methods, including the ability to recognize assumptions, draw inferences, make deductions, and interpret information to analyze problems in context, and then draw conclusions.
  - d. Recognize the complexity of problems and identify different perspectives from which problems and questions can be viewed.
  - e. Evaluate and report on conclusions, including discussing the basis for and strength of findings, and identify areas where further inquiry is needed.
  - f. Identify, analyze, and evaluate reasoning and construct and defend reasonable arguments and explanations.
3. **Communication** – Graduates are able to write and speak effectively to both general and specialized audiences, create effective visuals that support written or spoken communication, and use electronic media common to one's field or profession. Specific outcomes for all students include:
  - a. Demonstrate general academic literacy, including how to respond to the needs of audiences and to different kinds of rhetorical situations, analyze and evaluate reasons and evidence, and construct research-based arguments using Standard Written English.
  - b. Effectively use the common genres and conventions for writing within a particular discipline or profession.
  - c. Prepare and deliver effective oral presentations.
  - d. Collaborate effectively with others to share information, solve problems, or complete tasks.
  - e. Produce effective visuals using different media.
  - f. Apply the up-to-date technologies commonly used to research and communicate within one's field.
4. **Global/Multicultural Knowledge and Awareness**— Graduates will have developed knowledge of global and multicultural societies, and an awareness of their place in and effect on them. Specific outcomes for all students include:
  - a. Demonstrate knowledge of the history, philosophy, arts and geography of world cultures.
  - b. Respond to diverse perspectives linked to identity, including age, ability, religion, politics, race, gender, ethnicity, and sexuality, both in American and international contexts.
  - c. Apply the concept of social justice.
  - d. Demonstrate familiarity with a non-native language or experience living in a different culture.
  - e. Function effectively in diverse groups.
  - f. Demonstrate awareness of one's own place in and effect on the world.
5. **Citizenship and Ethics** – Graduates are able to participate knowledgeably and actively in the public life of our communities

and make informed, responsible, and ethical decisions in their personal and professional lives. Specific outcomes for all students include:

- a. Acquire knowledge of political, economic, and social institutions.
- b. Identify the various rights and obligations that citizens have in their communities.
- c. Apply various forms of citizenship skills such as media analysis, letter writing, community service and lobbying.
- d. Explain the concept of sustainability as it impacts economic, environmental, and social concerns.
- e. Examine various concepts and theories of ethics and how to deliberate and assess claims about ethical issues.
- f. Apply ethical concepts and theories to specific ethical dilemmas students will experience in their personal and professional lives.

### ***General Education Curriculum***

All UNLV students are expected to be engaged in the learning process and progressively improve their knowledge and capabilities in the UUOs for both their general education and academic major. Attainment of the learning outcomes will occur as students complete both formal classwork and engage in co-curricular efforts such as undergraduate research, scholarly and creative activities, service learning, and community engagement. These activities provide students opportunities to work with faculty at the forefront of their disciplines and to contribute to a creative and constructive university environment. Additional opportunities are made available to UNLV students to build partnerships with the community through service learning opportunities as well as leadership programs.

To guide student attainment of learning outcomes at every stage of the process, UNLV's General Education curriculum consists of a lower division Core requirement, a Distribution requirement, and Milestone and Culminating Experiences in the students' academic majors.

The Core includes English Composition, a required First-Year Seminar (FYS), a required Second-Year Seminar (SYS), a course of study in the Constitutions of the United States and of Nevada, and Mathematics. English Composition develops students' abilities to read and analyze difficult texts, respond in well-written essays, and apply the principles of good research in their writing. The First-Year Seminar introduces students to the university environment, its shared values (the UUOs), the academic expectations of research-oriented institutions, and college success strategies. The Second-Year Seminar provides students with a more in-depth understanding of the Learning Outcomes through intensive engagement in reading, writing, and critical thinking.

Students will then demonstrate their acquired knowledge, skills, and critical thinking within the context of the major field of study through a Milestone Experience in their sophomore or junior year and a Culminating Experience in their senior year, both of which are major program-specific in their design and delivery.

### **Courses that satisfy UNLV's General Education Requirements simultaneously satisfy the Nevada System of Higher Education General Education requirements.**

The UNLV General Education requirements must be completed by all baccalaureate degree candidates. With the exception of UNLV general education courses satisfying Multicultural/International course requirements, courses cannot simultaneously satisfy two or more general education curriculum requirements.

## ***Transfer Students and Students with Prior Undergraduate Degrees***

Admitted transfer students should confer with the Registrar's Office or their college advising center about applicable General Education transfer credit and course substitutions where appropriate.

Students who received an Associate of Arts, Associate of Business, or Associate of Science degree from any Nevada System of Higher Education community college are exempt from all UNLV general education requirements. They must still complete the UNLV Milestone or Culminating Experience requirements in their baccalaureate majors.

Students previously awarded a bachelor's degree from any Nevada System of Higher Education institution are exempt from all UNLV General Education requirements, except for major course requirements for their 2nd major that are also designated as part of Milestone and Culminating Experiences.

Students awarded a bachelor's degree from any regionally accredited institution outside of Nevada, provided their previously completed general education curriculum consisted of a minimum of 30 semester credit hours of for-credit, non-developmental courses, are exempt from nearly all UNLV General Education requirements, except for U.S. and Nevada Constitutions (if not previously completed) and major course requirements for their 2nd major that are also designated as part of Milestone and Culminating Experiences.

Transfer students and students with prior degrees who have already successfully completed a satisfactory three semester credit U.S. Constitutions course from a regionally accredited institution must successfully complete a satisfactory Nevada Constitutions course. For Constitutions courses offered prior to 2000, please refer to the appropriate catalog course descriptions to determine which ones satisfied the Constitutions requirement.

Lower-division general education courses successfully completed at a regionally accredited U.S. institution that may possibly count towards UNLV general education requirements will be evaluated for transfer credit no matter in what year the courses were completed.

Upper-division courses and/or courses designed for the major may not be applicable for transfer if they are over 10 years old, depending on the field of study as determined by the UNLV College, School or Department offering coursework in that field.

If a student transfers from a regionally accredited U.S. institution where the incoming transfer credits do not match the UNLV semester credits required, UNLV will first identify (if it exists) the matching general education requirement and/or the equivalent UNLV course, and then compare the number of transfer credits earned to the number of credits required. Then, whether the course is equivalent to a UNLV

- If 66% or more of required credits for a particular UNLV requirement have been earned in the transfer course, then the requirement has been met.
- If less than 66% of required credits have been earned in the transfer course, then the student must successfully complete additional course(s) to make up the credit shortage within that general education requirement. Students must still satisfy the minimum general education credits in every category to graduate.

Transfer students from NSHE institutions that have previously been awarded Associate of Arts, Associate of Business, or Associate of Science degrees are exempt from the FYS and SYS, but are not exempt from the Milestone and Culminating Experience requirements in their majors, unless they have satisfactorily completed a class at another NSHE institution that has a common course number with a Milestone class designated as part of a Milestone Experience in their UNLV major.

Second baccalaureate students who have been awarded a recognized bachelor's degree from a regionally accredited institution (including UNLV degrees) are exempt from the FYS and SYS, but are not exempt from the Milestone and Culminating Experience requirements in their second majors.

### **For transfer students without a previously awarded degree:**

- i) an exemption for FYS is usually granted for satisfactory completion (passing grades) of 30 or more semester credit-hours;
- ii) exemptions for both FYS and SYS are usually granted for satisfactory completion (passing grades) of 60 or more semester credit-hours.

## ***Honors College***

Students who successfully complete the Core Curriculum of the Honors College automatically satisfy all of the General Education Core requirements.

### **Petitions for Substitutions or Waivers**

Students seeking to apply for substitution or waiver of General Education Requirements should submit a petition approved by the Advisor, Department Chair and College Dean to the Faculty Senate General Education Committee at least two semesters before the proposed date of graduation

### **General Education Core Requirements..... 18-21 credits**

#### **1. First-Year Seminar..... 2-3 credits**

A required first-year course, the First-Year Seminar (FYS) introduces students to the University Undergraduate Learning Outcomes (UULOs) through reading, writing, and critical thinking. This course will provide a foundation for students' general education experience and introduce integration of the UULOs into any major field of study. It will introduce through the Undergraduate Learning Outcomes: inquiry and critical thinking, written and oral communication, citizenship and ethics, global and multicultural issues, and intellectual breadth and lifelong learning.

All students are required to satisfactorily complete a designated FYS before completing 30 credits. To meet this requirement, students can take and complete any approved FYS that is offered by any college or department. The University FYS requirement is for a minimum of 2 credits. A college or department may elect to require an additional 1 credit of material specific to a particular major. Students changing majors need not repeat the 2-credit University FYS requirement, but may be required to complete the additional 1 credit college or department requirement for their major. Approved FYS courses currently include: BUS 103, CFA 100, CFA 101, COE 102, COLA 100LA, COLA 100E, EGG 101, GSC 100, HSC 100, SCI 101, and TCA 103. Check the General Education web page and the UNLV Class Schedule for an up-to-date list of approved FYS courses.

#### **2. English Composition.....6 credits**

English 101 and 102. These courses should be successfully completed during the student's first year at UNLV, and must be completed prior to the end of the second year. Please see the catalog Admissions Section, the UNLV English Composition Program website or the UNLV Class Schedule web-site for current ACT/SAT placement test scores that will guide placement in the appropriate English Composition class. Students with ACT English scores of 30 or higher, or SAT Writing or Critical Reading

scores of 680 or higher place out of ENG 101 and need only take and successfully complete ENG 102. Minimum CLEP scores and Advanced Placement scores that satisfy the ENG 101 requirement are listed in the Admissions section of the catalog under the heading Nontraditional Credit. Students interested in alternate placement testing should contact the English Composition Program. Students whose first language is not English may take and successfully complete ENG 113 as an alternative to ENG 101 and ENG 114 as an alternative to ENG 102. All students must take and successfully complete ENG 102 or ENG 114; there is no exemption at UNLV.

3. **Second-Year Seminar** ..... 3 credits  
A required second-year course, the Second-Year Seminar (SYS) engages students more intensively with the learning outcomes through extensive reading, writing, and critical thinking. These seminars explore issues relevant to contemporary global society within their larger contexts, including but not limited to aspects of literature, history, politics, economics, philosophy, and scientific discovery. They reinforce the UUOs of global awareness, ethics, civic engagement, oral and written communication and critical thinking introduced within the First-Year Seminar.

All students must satisfactorily complete a designated SYS before completing 60 credits. Students from any college or major may take any approved SYS to meet the requirement. The following are prerequisites for the course: FYS and ENG 101 and ENG 102 (or equivalent). Approved SYS courses currently include: COE 202, ENG 231, ENG 231E, ENG 231S, ENG 232, ENG 232A, GSC 300, PBH 205, and PHIL 242. Check the General Education web page and the UNLV class schedule for an up-to-date list of approved SYS courses.

4. **Constitutions** ..... 4-6 credits  
All students must satisfactorily complete courses examining the Constitutions of both the United States and the State of Nevada. Transfer students who have already successfully completed a satisfactory 3 semester-credit U.S. Constitutions course from a regionally-accredited institution must successfully complete a satisfactory Nevada Constitutions course. Current UNLV courses that satisfy the Constitutions requirements are:

- United States Constitution—HIST 101, HIST 401, HIST 412, PSC 304, PSC 330, PSC 409C, and PUA 241.
- Nevada Constitution—HIST 102, HIST 217, HIST 402, HIST 417A, PSC 100, and PSC 401D.
- Both United States and Nevada Constitutions—HIST 100, HON 111 H, HON 112 H, and PSC 101.

5. **Mathematics Requirement** ..... 3 credits  
Any 100 or 200-level MATH course except MATH 115 or MATH 122. Mathematics course requirements are college-specific; therefore, students should check with the Advising Center of their major to determine what Mathematics course is required. This course should be satisfactorily completed during the student's first year at UNLV, and must be completed prior to the end of the second year. Please see the catalog Admissions Section for current ACT/SAT placement test scores that will guide placement in the appropriate MATH class. Students interested in alternate placement testing should contact the Department of Mathematical Sciences.

## General Education Distribution Requirements - 18-19 credits

The purpose of the distribution requirement is to provide attainment of the Intellectual Breadth and Lifelong Learning outcome by developing in students the intellectual breadth needed by all citizens in a complex, multicultural and technological global civilization. To meet this requirement, students must satisfactorily complete three courses, typically totaling nine to ten credit hours, in each of two content areas that are OUTSIDE the major area of study. The three distribution content areas are: (1) Humanities and Fine Arts, (2) Social Sciences, and (3) Life and Physical Sciences and Analytical Thinking. Students automatically satisfy one distribution area when they complete their major course requirements. Please see the listing Majors and their Distribution Area Assignments later in this section to see the Major Distribution content areas that are satisfied within the major area of study. See the Faculty Senate General Education web page for a continuously updated listing of the courses satisfying the content areas designated below.

The major department or college will also decide what training in computer literacy is needed, or incorporate such training in other course work for the major.

The distribution content areas are:

### • Humanities and Fine Arts

Two courses (three credits each) from two different humanities areas and one introductory or appreciation course (three credits) from a fine arts area. Courses used to satisfy the English Literature or Constitution requirements may not be used to satisfy Humanities distribution requirements.

- **Humanities courses (6 credits)** will be selected from any literature course offered by the English Department, any foreign language, history (Afro-American studies if cross-listed with history), philosophy (except PHIL 102, 105, or 114), architectural design (only AAD 201/201D), communication studies (only COM 101, 211, 216), women's studies (only those cross listed with Humanities and Fine Arts).

- **A Fine Arts course (3 credits)** will be selected from AAE 100; AAI 100; LAND 100; ART 101, 107, 211, 212, 135, 160, 216, 260, 261; DAN 100, 101, 103, 104, 165, 166/AAS 166; FIS 100, 110; MUS 101, 121, 125, 129, 134\*, or THTR 100, 105, 124, 175.

### • Life and Physical Sciences and Analytical Thinking

Two courses from the life and physical sciences (at least one of which must be a laboratory course), typically for a total of seven credits, and one three-credit course in analytical thinking.

- **Life and Physical Science courses (7 credits)** will be selected from astronomy; ANTH 102, 110L; NUTR 121; biology; chemistry (except CHEM 103); EGG 100, ENV 101, 220; physical geography; geology; or physics.

- **Analytical Thinking course (3 credits):** PHIL 102.

### • Social Sciences

One course each from three different fields for a total of nine (9) credits. Courses used to satisfy the Constitutions requirement may not be used to meet Social Sciences distribution requirements.

- **Social Science Courses (9 credits)** will be selected from AAS (except AAS courses cross-listed with dance, English, or history); ANTH (except ANTH 102); CED 117; MFT 150, 360; CRJ 104, 270, 435, 436, 438, 469; ECON; EGG 307; PBH 165 HED 429, 435; LAS 101; PSC; PSY or EPY 303; SW 101; SOC; or WMST (excluding those cross-listed with Humanities and Fine Arts). All statistics courses are excluded.



**Multicultural and International Requirements:** A minimum of six (6) credits, to be composed of a three-credit multicultural course requirement and a three-credit international course requirement that may simultaneously fulfill other general education requirements. A single course may not simultaneously meet both the multicultural and international requirements. To identify approved courses satisfying these requirements, consult the University General Education website (<http://generaled.unlv.edu/mi.html>).

**Milestone and Culminating Experiences**

**Milestone Experience:** The milestone experience will orient students to the expected learning outcomes of the major and reinforce the UULOs. Each major program of study will identify and implement a Milestone Experience for their majors that can be in the form of a single course, components of multiple courses, or defined assessable outcomes. The Milestone Experience will be successfully completed in the sophomore or junior year, and will include, at a minimum, reinforcement of the (i) Inquiry and Critical Thinking and (ii) Communication UULOs.

**Culminating Experience:** The Culminating Experience is a final review, consolidation, and assessment of the UULOs as well as the learning outcomes of the respective major. Each major program of study will identify and implement a Culminating Experience for their majors. The Culminating Experience can be implemented in a variety of forms. For example, a Culminating Experience might consist of one or more of the following: an original undergraduate research project, a design capstone, developing an e-portfolio of artistic or scholarly work completed over a student’s college career, or a required internship or service learning project with an academic component that requires development and presentation of a report. The Culminating Experience should be completed in the last year prior to graduation.

**Majors and Their Distribution Area**

**Assignments**

Students are required to fulfill General Education Distribution content requirements in the TWO areas OUTSIDE their major’s distribution area. The distribution areas that are automatically satisfied by completing the major are listed below:

College or Major	Distribution Area satisfied in the Major
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**Lee Business School**

All Majors	Social Sciences
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**College of Education**

Early Childhood Education	Social Sciences
Elementary Education	Social Sciences
Physical Education	Social Sciences
Secondary Education	According to teaching field listed below
Anthropology	Social Sciences
Art	Humanities and Fine Arts
Biological Science	Life-Physical Sciences & Analytical Thinking
Chemistry	Life-Physical Sciences & Analytical Thinking
Earth Science	Life-Physical Sciences & Analytical Thinking
Eng Lit/American Lit	Humanities and Fine Arts
English (Comprehensive)	Humanities and Fine Arts
French	Humanities and Fine Arts
General Science	Life-Physical Sciences & Analytical Thinking
German	Humanities and Fine Arts
History	Humanities and Fine Arts
Journalism	Humanities and Fine Arts

Mathematics	Life-Physical Sciences & Analytical Thinking
Physical Science	Life-Physical Sciences & Analytical Thinking
Physics	Life-Physical Sciences & Analytical Thinking
Political Science	Social Sciences
Social Science (Comp)	Social Sciences
Spanish	Humanities and Fine Arts
Speech Communication	Humanities and Fine Arts
Theatre Arts/Drama	Humanities and Fine Arts
Special Education	Social Sciences
Workforce Education	Social Sciences

**Howard R. Hughes College of Engineering**

All Majors	Life-Physical Sciences & Analytical Thinking
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**College of Fine Arts**

All Majors	Humanities and Fine Arts
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**Division of Health Sciences**

School of Allied Health Sciences (All majors)	Life-Physical Sciences & Analytical Thinking
School of Nursing (All majors)	Life-Physical Sciences & Analytical Thinking
School of Community Health Sciences (All majors)	Social Science

**Honors College**

Please see Honors College program requirements

**William F. Harrah College of Hotel Administration**

All Majors	Social Sciences
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**College of Liberal Arts**

Afro-American Studies	Social Sciences
Anthropology	Social Sciences
English	Humanities and Fine Arts
Foreign Languages	Humanities and Fine Arts
History	Humanities and Fine Arts
Interdisciplinary Degrees	
Asian Studies	Social Sciences
Latin American Studies	Social Sciences
Linguistic Studies	Social Sciences
Multidisciplinary Studies	Social Sciences
Social Science Studies	Social Sciences
Philosophy	Humanities and Fine Arts
Political Science	Social Sciences
Psychology	Social Sciences
Sociology	Social Sciences
Women’s Studies	Social Sciences

**College of Sciences**

All Majors	Life-Physical Sciences & Analytical Thinking
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**Greenspun Greenspun College of Urban Affairs**

Communication Studies	Humanities and Fine Arts
Criminal Justice	Social Sciences
Environmental Studies	Consult with Advisor
Human Services Counseling	Social Sciences
Journalism and Media Studies	Humanities and Fine Arts
Public Administration	Social Sciences
Social Work	Consult with Advisor



# Tuition and Residency

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## ***Regulations for Determining Residency for Tuition***

The Offices of the Admissions and the Enrollment Services Center have been delegated responsibility for the determination of residence status for tuition purposes for new and continuing undergraduate students enrolled at the University of Nevada, Las Vegas respectively.

Information and application forms can be found online ([www.unlv.edu](http://www.unlv.edu)) or can be obtained from the Offices of Admissions and the Enrollment Services Center.

The following regulations are Nevada Board of Regents' policy for all the Nevada System of Higher Education institutions. These regulations are subject to change and changes become effective immediately upon Board of Regents' adoption.

## ***TITLE 4 – CODIFICATION OF BOARD POLICY STATEMENTS***

### ***Chapter 15 – Regulations for Determining Residency and Tuition Charges***

#### **Section 1. Purpose**

These regulations have been enacted to provide uniform rules throughout the Nevada System of Higher Education (the "System") and all member institutions thereof for the purpose of determining whether students shall be classified as resident students or nonresident students for tuition charges.

#### **Section 2. Definitions**

For the purposes of these regulations, the terms stated below shall have the following meanings:

1. Alien means a person who is not a citizen of the United States of America.
2. Armed Forces of the United States means the Army, the Navy, the Air Force, the Marine Corps and the Coast Guard, on active duty and does not include the National Guard or other reserve force, with the exception of active members of the Nevada National Guard.
3. Clear and convincing evidence means evidence that is clear in the sense that it is not ambiguous, equivocal or contradictory and is convincing in the sense that it is of such a credible, reliable, authentic and relevant nature as to evoke confidence in the truth of it.
4. Continuously enrolled means enrollment within a normal academic year for which continuous enrollment is claimed. A person need not attend summer sessions or other between-semester sessions in order to be continuously enrolled.
5. Date of matriculation means the first day of instruction in the semester or term in which enrollment of a student first occurs, except that at the University of Nevada School of Medicine, it means the date that a notice of admittance is sent to a student, and at the community colleges, it excludes correspondence courses and community service courses that are not state funded. A person who enrolled in an institution of the Nevada System of Higher Education but withdrew enrollment during the 100 percent refund period may, for the purposes of these regulations, be deemed not to have matriculated, and any determination concerning residency status shall be voided until such time as the person again enrolls at a System institution.
6. Dependent means a person who is not financially independent and is claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person for the most recent tax year.
7. Family means the natural or legally adoptive parent or parents of a dependent person, or, if one parent has legal custody of a dependent person, that parent.
8. Financially independent means a person who has not been and will not be claimed as an exemption for federal income tax purposes under Section 152 of the Internal Revenue Code (26 U.S.C. § 152) by another person, except his or her spouse, for the most recent tax year.
9. Most recent tax year means the income tax return submitted for the prior income year.
10. Legal guardian means a court-appointed guardian of a dependent person who was appointed guardian at least 12 months immediately prior to the dependent person's date of matriculation and for purposes other than establishing the dependent person's residence.
11. Nonresident means a person who is not a resident.
12. Objective evidence means evidence that is verifiable by means other than a person's own statements.
13. Relocated means evidence of permanent, full-time employment or establishment of a business in Nevada prior to the date of matriculation.
14. Residence a term that for the purposes of these regulations is synonymous with the legal term "domicile," means that location in which a person is considered to have the most settled and permanent connection and where that person intends to remain and intends to return after any temporary absences. Residence results from the union of a person's physical presence in the location with objective evidence of an intent to remain at that location for other than a temporary purpose.
15. Resident means a person who has established a bona fide residence in the state of Nevada with the intent of making Nevada the person's true, fixed and permanent home and place of habitation, having clearly abandoned any former residence and having no intent to make any other location outside of Nevada the person's home and habitation. The term also includes a member of the Armed Forces of the United States who has previously established a bona fide residence in the state of Nevada but who has been transferred to a military posting outside of Nevada while continuing to maintain a bona fide residence in Nevada. When residence for a particular period is required under these regulations, this shall mean that the person claiming residence for the period must be physically present and residing in Nevada during all of the period required, excluding temporary, short-term absences for business or pleasure.
16. Returning student means a student who re-enrolls after a break in enrollment of one or more semesters.
17. Student means a person who is enrolled at an institution of the Nevada System of Higher Education.
18. Tuition means a monetary charge assessed against nonresident students, which is in addition to registration fees or other fees assessed against all students.

### Section 3. Tuition

1. Tuition shall not be charged to current enrollees or graduates of a Nevada high school.
2. Tuition shall not be charged to returning students who had established an exemption from tuition charges at any NSHE institution in their prior enrollment period.
3. Tuition shall be charged to nonresident students, except that at the community colleges no tuition shall be charged for registration in community service courses that are not state funded.
4. Tuition shall not be charged to a professional employee, classified employee, postdoctoral fellow, resident physician, or resident dentist of the Nevada System of Higher Education currently employed at least half time, or the spouses or dependent child of such an employee.
5. Tuition shall not be charged to a graduate student enrolled in the Nevada System of High Education and employed by the System in support of its instructional or research programs, only during the period of time of such employment.
6. Tuition shall not be charged to a member of the Armed Forces of the United States, on active duty, stationed in Nevada as a result of a permanent change of duty station pursuant to military orders, or a person whose spouse, parent or legal guardian is a member of the Armed Forces of the United States stationed in Nevada as a result of a permanent change of duty stated pursuant to military orders, including a Marine currently stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California. If the member ceases to be stationed in Nevada, reside in Nevada, be stationed in Pickle Meadows, California, or be domiciled in Nevada, the spouse, child or legal guardian of the member was enrolled prior to the reassignment and remains continuously enrolled at an NSHE institution.
7. Tuition shall not be charged to a veteran of the Armed Forces of the United States who was honorably discharged and who on the date of discharge was on active duty stationed in Nevada, including a marine stationed at the Marine Corps Mountain Warfare Training Center at Pickle Meadows, California, pursuant to military orders.
8. Tuition shall not be charged to a student enrolled in the University Studies Abroad Consortium or on the Nation Student Exchange Program, only during the period of time of such enrollment. Time spent in Nevada while a student is in the National Student Exchange Program shall not be counted towards satisfying the residence requirement of Section 4, Paragraph 2 below, nor shall enrollment through the Consortium or the Exchange Program be included in the "date of matriculation" for evaluation of Nevada residency.
9. Tuition shall not be charged to members of federally recognized Native American tribes, who do not otherwise qualify as Nevada residents, and who currently reside on tribal lands located wholly or partially within boundaries of the State of Nevada.

### Section 4. Resident Students

As supported by clear and convincing evidence, any person to whom one of the following categories applies shall be deemed a resident student for tuition purposes:

1. Except as provided otherwise in this section, a dependent person whose spouse, family or legal guardian is a bona fide resident of the state of Nevada for at least twelve (12) months

immediately prior to the date of matriculation. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student's application for enrollment:

- a. Evidence of Nevada as the spouse's, parents', or legal guardian's permanent, primary residence at the date of matriculation (Examples of evidence include home ownership, a lease agreement, rent receipts, or utility bills.)
  - b. The student's birth certificate or proof of legal guardianship.
  - c. The spouse's, parents' or legal guardian's tax return for the most recent tax year, that indicates the student claimed as a dependent.
  - d. A Nevada driver's license or Nevada identification card for the spouse, parent, or legal guardian issued prior to the date of matriculation.
  - e. A Nevada vehicle registration for the spouse, parent or legal guardian issued prior to the date of matriculation.
  - f. Nevada voter registration for the spouse, parent, or legal guardian issued prior to the date of matriculation.
  - g. Evidence that the student's spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada. (Examples of evidence include a letter from the employer or copy of business license.)
2. Except as provided otherwise in this section, a financially independent person whose family resides outside the state of Nevada if the person himself or herself is a bona fide resident of the state of Nevada for at least 12 months immediately prior to the date of matriculation. Each student who is a resident of the state of Nevada for at least 6 months but less than 12 months before the date of matriculation for fall 2005 shall be deemed a bona fide resident. Some or all of the following pieces of objective evidence of Nevada residency may be required with the student's application for enrollment:
    - a. Evidence of 12 months of physical, continuous presence in the state of Nevada prior to the date of matriculation. (Examples of evidence include a lease agreement, rent receipts, or utility bills.)
    - b. The student's tax return for the most recent tax year, indicating a Nevada address. If no federal tax return has been filed by the student because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income. If the student is under the age of 24, a copy of the parents' or legal guardian's tax return for the most recent tax year that indicates the student was not claimed as a dependent.
    - c. The student's Nevada driver's license or Nevada identification card issued prior to the date of matriculation.
    - d. The student's Nevada vehicle registration issued prior to the date of matriculation.
    - e. The student's Nevada voter registration issued prior to the date of matriculation.
    - f. Evidence that the student, and/or the person's spouse, has relocated to Nevada for the primary purpose of permanent full-time employment or to establish a business in Nevada (Examples of evidence include a letter from the employer or copy of business license.)
  3. A former member of the Armed Forces of the United States who was relocated from Nevada as a result of a permanent change of duty station pursuant to military orders will be considered a Nevada resident for tuition purposes under the following conditions:

- a. He/she was a resident of Nevada prior to leaving the state as a member of the Armed Forces.
  - b. He/she maintained his/her Nevada residency while a member of the Armed Forces.
  - c. He/she returns to the State of Nevada within one year of leaving the Armed Forces. It will be necessary for the student to supply documentation in support of each of these conditions (e.g., driver's license, property ownership, evidence of absentee voting, etc.)
4. A graduate of a Nevada high school
  5. A financially independent person who has relocated to Nevada for the primary purpose of permanent full-time employment.
  6. A financially dependent person whose spouse, family, or legal guardian has relocated to Nevada for the primary purpose of permanent full-time employment.
  7. Licensed educational personnel employed full-time by a public school district in the State of Nevada, or the spouse or dependent child of such an employee.
  8. A teacher who is currently employed full-time by a private elementary, secondary, or post secondary educational institution whose curricula meet the requirements of NRS 394.130 or the spouse or dependent child of such an employee.
  9. An alien who has become a Nevada resident by establishing bona fide residence in Nevada and who holds a permanent immigrant visa, has been granted official asylum or refugee status, and has been issued a temporary resident alien card, or holds an approved immigration petition as a result of marriage to a U.S. citizen. An alien holding another type of visa shall not be classified as a resident student, except as may be required by federal law or court decisions and upon due consideration of evidence of Nevada residence.

### **Section 5. Admission to Medical School**

An applicant for admission to the University of Nevada School of Medicine who has been a resident of Nevada for at least 12 months immediately prior to the last day for filing an application for admission to the school (Nov. 1 of each year) shall be classified as a resident of Nevada for the purposes of being considered for admission to the University of Nevada School of Medicine.

### **Section 6. Admission to William S. Boyd School of Law**

An applicant for admission to the William S. Boyd School of Law at UNLV who has been a resident of Nevada for at least 12 months immediately prior to the last day for filing an application for admission to the school shall be classified as a resident of Nevada for the purposes of being considered for admission to the William S. Boyd School of Law at UNLV.

### **Section 7. Admission to UNLV School of Dental Medicine**

An applicant for admission to the School of Dental Medicine at UNLV who has been a resident of Nevada for at least 12 months immediately prior to the last day of filing an application for admission to the school (March 1 of each year) shall be classified as a resident of Nevada for the purpose of being considered for admission to the School of Dental Medicine at UNLV.

### **Section 8. Reclassification of Nonresident Status**

There is a rebuttable presumption that a nonresident attending an institution of the Nevada System of Higher Education is in the state of Nevada for the primary or sole purpose of obtaining an education. Therefore, a nonresident who enrolls in an institution of the system shall continue to be classified as a nonresident student throughout the student's enrollment, unless and until the student demonstrates that his or her previous residence has been abandoned and that the

student is a Nevada resident. Each student seeking reclassification from nonresident to resident student status must satisfy the following four conditions:

#### **1. Application and Written Declaration**

The student must apply in writing to the appropriate Records Office of the institution for reclassification to resident student status. The application must include a written declaration of intent to relinquish residence in any other state and to certify to the establishment of bona fide residence in Nevada. A declaration form prescribed by the Chancellor and approved by the board shall be utilized by each institution. The filing of a false declaration will result in the payment of nonresident tuition for the period of time the student was enrolled as a resident student and may also lead to disciplinary sanctions under Chapter Six of the Nevada System of Higher Education Code. Disciplinary sanctions include a warning, reprimand, probation, suspension or expulsion.

#### **2. Bona Fide Residence in Nevada**

The student, or the parents or legal guardian of the student, must document continuous physical presence as a Nevada resident for at least 12 months immediately prior to the date of the application for reclassification. No fewer than four of the following pieces of objective evidence must be submitted with the application for reclassification:

- a. Ownership of a home in Nevada.
- b. Lease of living quarters in Nevada.
- c. Mortgage or rent receipts and utility receipts for the home or leased quarters.
- d. Nevada driver's license or Nevada identification card issued twelve (12) months prior to the date of application.
- e. Nevada vehicle registration issued 12 months prior to the date of application.
- f. Nevada voter registration issued 12 months prior to the date of application.

#### **3. Financial Independence**

The student must provide evidence of financial independence. A dependent person whose family or legal guardian is a nonresident is not eligible for reclassification to resident student status. The following piece of objective evidence must be submitted with the application for reclassification:

- a. A true and correct copy of the student's federal income tax return for the most recent tax year showing a Nevada address. If no federal tax return has been filed because of minimal or no taxable income, documented information concerning the receipt of such nontaxable income must be submitted. If the student is under the age of 24, a copy of the parent's or legal guardian's tax return for the most recent tax year must be submitted that indicates the student was not claimed as a dependent.

#### **4. Intent to Remain in Nevada**

The student must present clear and convincing, objective evidence of intent to remain a Nevada resident. No fewer than three of the following pieces of objective evidence must be submitted with the application for reclassification:

- a. Employment in Nevada for 12 months immediately prior to the date of the application for reclassification.
- b. A license for conducting a business in Nevada.
- c. Admission to a licensed practicing profession in Nevada.
- d. Registration or payment of taxes or fees on a home, vehicle, mobile home, travel trailer, boat or any other item of personal property owned or used by the person for which

- state registration or payment of a state tax or fee is required for the 12 month period immediately prior to the date of the application.
  - e. Nevada address listed on selective service registration.
  - f. Evidence of active savings and checking accounts in Nevada financial institutions for at least 12 months immediately prior to the date of the application.
  - g. Evidence of summer term enrollment at an NSHE institution.
  - h. Voting or registering to vote in Nevada.
  - i. Any other evidence that objectively documents intent to abandon residence in any other state and to establish a Nevada residence.
5. The presentation by a person of one or more items of evidence as indicia of residence is not conclusive on the issue of residency. Determinations of residence shall be made on a case-by-case basis, and the evidence presented shall be given the weight and sufficiency it deserves after taking all available evidence into consideration.
  6. Because residence in a neighboring state other than Nevada is a continuing qualification for enrollment in the Good Neighbor, Children of Alumni, or WICHE Western Undergraduate Exchange Programs at a NSHE institution, a student who was initially enrolled in a system institution under any of these discounted tuition programs shall not normally be reclassified as a resident student following matriculation. A nonresident student who subsequently disenrolls from the Good Neighbor, Children of Alumni, or WICHE Western Undergraduate Exchange Programs and pays full nonresident tuition for at least 12 months may apply for reclassification to resident student status. An application for reclassification may also be submitted under the provisions of this section if the material facts of a student's residency, or the parents' or legal guardian's residency, have substantially changed following matriculation.
  7. When a student has been reclassified to resident student status, the reclassification shall become effective at the registration period in the system institution immediately following the date the student receives notice of the reclassification decision.
  8. No reclassification under these regulations shall give rise to any claim for refund of tuition already paid to the Nevada System of Higher Education.

### **Section 9. Administration of the Regulations**

Each institution of the Nevada System of Higher Education shall designate an appropriate office to implement and administer these regulations.

1. Each designated office shall make the initial decisions on the resident or nonresident student status of persons enrolling in the institution.
2. Each designated office shall make the initial decisions on applications for reclassification from nonresident to resident student status.
3. The President of each system institution shall establish an appellate procedure under which a person may appeal decisions of the designated office concerning tuition or status as a resident or nonresident student to an appellate board.
  - a. A person may appeal a decision of the designated office to the appellate board within 30 days from the date of the decision of the office. If an appeal is not taken within that time, the decision of the designated office shall be final.

- b. The appellate board shall consider the evidence in accordance with the standards and criteria of these regulations and shall make a decision that shall be final. No further appeal beyond the appellate board shall be permitted.
4. In exceptional cases, where the application of these regulations works an injustice to an individual who technically does not qualify as a resident student but whose status, either because of the residence of the student or his family, is such as to fall within the general intent of these regulations, then the appellate board shall have the authority to determine that such a student be classified as a resident student. It is the intent of this provision that it applies only in the infrequent, exceptional cases where a strict application of these regulations results, in the sole judgment of the appellate board, in an obvious injustice.

### **Section 10. Uniformity of Decisions**

The decision of an institution of the Nevada System of Higher Education to grant resident student or nonresident student status to a person shall be honored at other system institutions, unless a person obtained resident student status under false pretenses or the facts existing at the time resident student status was granted have significantly changed. Students granted nonresident student status by an institution retain the right to apply for reclassification under the provisions of the chapter.

**Residency Classification Information:** You should be aware of your resident status beginning with your first semester by reviewing your tuition charges or your admissions acceptance letter. You will be considered a non-resident until you apply for residency through the Admissions or Enrollment Services Center, with the exception of Nevada high school graduates that need their transcript for admission. If you are a transfer student with 24 or more college credit that has graduated from a Nevada High School, you will still need to apply for residency through the respective offices.

The fact that you do not qualify for in-state status in any other state does not guarantee in-state status in Nevada, because residency status for tuition purposes is governed by Board of Regents policy. Residency classification for tuition purposes clearly places the burden of proof upon the student (or the prospective student) to provide clear and convincing evidence of eligibility.

Information submitted to qualify for in-state classification is subject to independent verification. Individuals submitting false information or falsified supporting documents are subject to disciplinary procedures.

All residency applications and all the supporting documents submitted becomes the property of the University of Nevada, Las Vegas, and are not returnable.

**Appealing a Residency Decision:** A student may appeal the decision for residency classification made by the Offices of Admissions and the Enrollment Services Center. This appeal must be filed with the Residency Appeal Committee within thirty days of your initial residency decision and can be submitted to your residency evaluator who will submit the application on your behalf to the Residency Appeals Committee. If the appeal is not filed within this time frame, the decision of the Office of Enrollment Center & Admissions becomes final.

Please contact the Offices of Admissions and the Enrollment Services Center for instructions regarding the appeal process. Decisions of the Residency Appeal Committee are final. There is no further reconsideration beyond this Board.



# Fees

## [www.unlv.edu/cashiering](http://www.unlv.edu/cashiering)

All fees assessed by the university are subject to change by the Board of Regents. Every effort is made to keep the fees as low as possible while rendering the desired level of service. Nonresident fees are calculated to cover a major part of the direct cost of instruction. Eligibility for status as a resident of Nevada is determined by Office of the Registrar & Admissions (See Residency Regulations.)

**Registration Fees:** The fees listed below are applicable to fall 2015 and spring and summer term 2016.

*Undergraduate fee (per credit hour)	\$191.50
*Graduate fee (per credit hour)	\$264.00
**Summer term fee (undergraduate)	\$202.50
**Summer term fee (graduate)	\$275.00
*Nonresident tuition (7 or more credits per semester)	\$6,955.00
*1-6 credits (per credit undergraduate)	\$210.75
*1-6 credits (per credit graduate)	\$290.50
*Undergraduate Student Services fee (per credit hour)	\$1.00
*Graduate Student Services fee (per credit hour)	\$5.00
*Undergraduate Academic Success Initiative Fee	\$25.00

Refer to [www.unlv.edu/cashiering](http://www.unlv.edu/cashiering) for complete and current fee information.

**Nonresident Tuition:** Students who are not Nevada residents and who register at UNLV must pay nonresident tuition in addition to the per credit fees each semester.

\*Notwithstanding currently posted tuition and fees, all fees, tuition or other charges which students are required to pay each semester are subject to increase by action of the Board of Regents at any time before the commencement of classes. The amount you are charged at the time of registration is not a final bill and may be increased. You will receive a supplemental invoice for any additional amounts which the Board of Regents may impose. Fee changes put in place less than 30 days before commencement of classes will not be subject to late fee penalties.

\*\*Summer term fees are determined by adding \$11 per credit based on the upcoming fall semester fees.

**Audit Fee:** The fee for audit is the same as the fee for registering for credit. The equivalent credits of an audit course are considered in determining if the student is assessed out-of-state tuition.

## Special Fees and Charges:

1. An application fee of \$60 is charged to U.S. residents applying for admission to the university. International students pay a \$95 application fee. Application fees are not refundable or applicable to any other fee.
2. Special course fees may be made charged to cover unique and additional expenses associated with providing the course.
3. A late payment fee of \$25 per day to a maximum of \$250 is assessed to students who do not complete payment before the designated due date. Summer term students are assessed a late registration fee of \$25 per day until the end of the late registration period for that summer session. In case the time designated for registration is not adequate, the Office of the Registrar & Admissions may defer the assessment of this fee for one day. All late tuition may be reported to a credit bureau. A late registration

fee of \$50 is assessed to students whose initial registration for the term occurs on or after the start of the semester.

4. Returned check fee. Personal checks are accepted for payment of fees owed to the university, although no counter checks or checks altered in any way are accepted. A collection fee of \$25 is assessed for any check returned unpaid by the bank. The check must be made good within 10 days or it will be turned over to the District Attorney, and the student will be liable for all collection costs and any other related costs. Personal checks returned for any semester fees from the bank constitutes a financial withdrawal. The university reserves the right to place the student on a cash basis only, and financial withdrawal procedures may be initiated at the option of the university. A stop payment placed on a check does not constitute withdrawal from courses. Official withdrawal must be made through the Office of the Registrar & Admissions. Stop-pay checks will be processed as returned checks and are subject to the same fees and collection cost. If any personal check or electronic check is returned from the bank, the university reserves the right to place the student on a cash basis only. The university reserves the right to bring legal action for any returned check. Checks returned for NSF are illegal, and UNLV may report bearer of the check to the District Attorney.
5. A graduation fee of \$75 is due when the application for graduation is filed.
6. Late application for graduation, \$20.
7. Credits by special examination, \$60 per course.
8. American College Testing Program (ACT) examination, \$65.
9. Distance Education fee, \$34 per credit.
10. Student health fee, \$72 per semester, Summer Term is \$37
11. Rebel recycling fee, \$1 per semester.
12. Study Abroad Scholarship fee, \$2 per semester.
13. Technology fees, \$7 per credit.
14. CSUN fee, \$1.97 per credit
15. Student Life facilities fee: \$173
16. Summer term - \$14.50 per credit (maximum six credits).
17. International Student Fee, \$145 per semester for F-1 and J-1 visa international students only.

**Excess Credit Fee:** The charge to a student who has attempted credits equal to 150 percent of the credits required for the student's program of study. The amount of this additional fee is equal to 50 percent of the per credit registration fee. Attempted credits include all graded courses on a student's transcript, including but not limited to the grades of F and W (withdrawal) and repeated courses. The fee will be charged, for example, after 90 credits have been attempted towards a 60-credit associates degree or 180 credits towards a 120-credit bachelor's degree. Exceptions may apply on a case-by-case basis. The fee will be charged in all terms after passing the threshold number of credits until a degree is awarded to the student. Appeal procedures and other exceptions to this fee are outlined in the catalog.

**Room and Board Fees:** The charge for room and board includes living quarters, a meal plan, and local telephone service. A non-refundable deposit must also be paid to reserve a room.

Residence hall fees are subject to change. Contact Campus Housing or check the UNLV website for the most up-to-date fee information.

For information on housing and food service, consult the Housing and Food Service section of this catalog.

**Health and Accident Insurance:** A group policy that provides coverage for hospital and doctor's expenses is available to all undergraduate students paying for six or more credits and all graduate students paying for three or more credits. More information may be obtained through the Student Health Center. All international students with F-1 visa status are required to purchase this insurance subject to federal visa regulations. The premium, which is subject to change, is assessed during registration.

**Grant-in-Aid Fee Deferment:** Each student is expected to pay all assessed fees on registration day unless a grant-in-aid is secured prior to registration day. Students are responsible to pay their portion on time. Late fees and/or a financial withdrawal may be initiated for a student's portion and/or reported to a credit bureau. Legal proceedings may be initiated for any default accounts receivable.

**Refund of Fees:** Students who withdraw from the university receive a refund of fees according to the schedule below, which is subject to change by the Board of Regents. All requests for exception to the refund policy for extraordinary circumstances must be made to Office of the Registrar & Admissions or the Fee Appeal Committee. An appeal form is available at the Office of the Registrar & Admissions, the Cashier's Office or the Cashiering & Student Accounts Office website.

1. For all UNLV students, including auditors, for net credit load reductions and withdrawals from the university, the refund policy is as follows:
  - A. WITHIN THE FIRST WEEK OF INSTRUCTION.
    1. 100 percent credit of all fees.
  - B. AFTER THE FIRST WEEK OF THE INSTRUCTIONAL PERIOD OF A REGULAR TERM.
    1. 50 percent credit for total withdrawal from the university until the end of the sixth week. No credit for total withdrawals after the end of the sixth week.
    2. 0 percent credit for all other withdrawals, except as noted in paragraph (5).
2. For all UNLV students, including auditors, for net credit load reductions and withdrawals from the university during the summer term, the refund policy is as follows:
  - A. Courses dropped prior to the first day of the instructional period will receive a 100 percent credit.
  - B. Courses dropped within the first 20 percent of the course period, as defined by the Office of the Registrar & Admissions, will receive a 50 percent credit.
  - C. There will be no credit for courses dropped after 20 percent of the course period has passed.
3. No credit shall be made for health and accident insurance premiums.
4. Modular courses follow different refund policies than stated above. Inquire at the Office of the Registrar & Admissions for details regarding a particular modular course's refund policy.
5. Upon written approval of the Vice President of Finance, a full refund of all registration fees and tuition shall be given upon official withdrawal at any time during the first semester in the following circumstances:
  - A. Deployment of a student in the United States Armed Forces;
  - B. Death or incapacitation resulting from an illness or injury of the student; or spouse, child, parent, or legal guardian of the

student that prevents the student from returning to school for the remainder of the semester;

- C. Verifiable error on the part of the institution.
- D. Involuntary job transfer outside the service area of the institution as documented by employer; or
- E. Other exceptional circumstances beyond the control of the institution or the student.

All refunds are made by check or EFT or refunded to the credit card used for payment..

6. In some cases, federal regulations require that refunds for students receiving financial aid must be refunded back to the financial aid program rather than the student. For information about exemptions to this policy, please contact Student Financial Services. Dropping below full time for students on financial aid may invalidate eligibility for financial aid. Students may owe UNLV for financial aid refunds.

**Room and Board Refund:** Students withdrawing from the residence hall will receive refunds according to the terms and conditions of the residence and dining hall contract.

**Delinquent Account:** A student or former student having a delinquent account receivable or an overdue student loan of any amount with any division of the Nevada System of Higher Education shall not be permitted to register, receive any type of transcript of records, grades, diploma or certificate or obtain services from any division. The university reserves the right to refer any delinquent account to a collection agency and/or report to a credit bureau. Legal proceedings may be initiated for any delinquent account. Students are responsible for any additional collection and legal fees.

All fees are due and payable by the last working day before instruction begins. The university reserves the right to financially withdraw any student who has not paid all fees, including the \$25 per-day late payment fee, by the fourth week of instruction.

**International Students:** Because all international students are required to check-in in person at the Office of International Students and Scholars before registering for classes, it is recommended that payment be made after arrival at UNLV. International students may pay by credit card or e-check using the on-line registration system or may pay by traveler's cheque, cash in U.S. dollars, personal check drawn on any U.S. bank, or cashier's check drawn on a foreign bank ONLY IF issued in U.S. dollars and shall be accepted only with the approval of the Controller's Office. Payment must clearly identify student's name, identification number, and semester(s) for which payment is intended. No personal checks drawn on non-U.S. banks will be accepted. International students who wish to pay by electronic transfer should contact the UNLV Cashier's Office at 702-895-3683 and should make such arrangements at least one month prior to the beginning of the semester.

**Monthly Interest-free Monthly Payment Option:** To help afford tuition and fees expenses, UNLV is pleased to offer students an interest-free monthly payment option. This allows educational expenses to be made in monthly payments during the semester for a small enrollment fee. There is no interest, pre-qualification or credit check for this service. You will have 24-hour access to account information through the MyUNLV self-service.

For more information or to enroll, visit [www.unlv.edu/cashiering](http://www.unlv.edu/cashiering)

# Financial Aid and Scholarships

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## **Financial Aid & Scholarships:** <http://www.unlv.edu/finaid>

The University of Nevada, Las Vegas (UNLV) provides a wide variety of assistance to finance higher-education expenses. Grants, scholarships, work programs, and student loans are available to help students meet their costs while attending UNLV. Students are encouraged to explore all possible resources. For more information about available resources and the application process, you can refer to the Financial Aid & Scholarships section of this catalog. Further details are available online at [www.unlv.edu/finaid](http://www.unlv.edu/finaid). You may also contact the office at 702-895-3424 or visit the second floor of the Reynolds Student Services Complex, Building A.

**Application Procedures:** UNLV has one application that students must complete if they wish to be considered for financial assistance: The Free Application for Federal Student Aid (FAFSA). This application is available at [www.fafsa.gov](http://www.fafsa.gov). This application will need to be completed on a yearly basis. Once an application is submitted, students may be instructed to submit various supporting documents to assist in determining their eligibility for financial assistance. Students are strongly encouraged to complete the admissions application prior to or at the same time they are applying for financial assistance. The FAFSA is available online Jan. 1 of each year.

### **Priority Filing Date:**

- Free Application for Federal Student Aid (FAFSA) deadline is Feb. 1. Students should note that this is a priority date for the FAFSA. Applying after Feb. 1 reduces your chances of receiving the most attractive financial assistance package.

**Determining Need:** Eligibility for many of these programs is determined by evaluating the student's financial need. The federal government expects that a student and the family (parents, spouse) have the primary financial responsibility for educational and living expenses. Family income, assets and number of people in the household are some of the factors determining the amount students and/or their families are expected to contribute.

The financial information provided by the family is evaluated by a federally approved need analysis to determine the amount the family has available to meet the student's educational expenses. If the amount determined is less than the student's total cost of attendance (fees, tuition, book, supplies, room and board, transportation, and personal expenses), the student is considered to have financial need.

**Eligibility for Financial Assistance:** To qualify for financial assistance, students generally must meet the following criteria:

- Be admitted as a regular student in an eligible program.
- Be a U.S. citizen or eligible non-citizen.
- Be making satisfactory academic progress toward a degree.
- If required, be registered with selective service.
- Not be in default on a federal student loan or owe a repayment on a federal grant.

**Satisfactory Progress:** Students receiving financial assistance are required to maintain satisfactory progress in their course work. Maintaining satisfactory academic progress means a student must

fulfill certain minimum standards in regard to academic progress and academic performance. Criteria vary depending on the type of assistance received. Students should review the Satisfactory Academic Progress Standards located at <http://www.unlv.edu/finaid/checklistafter-sap> or contact Financial Aid & Scholarships for information regarding satisfactory academic progress requirements specific to their financial assistance.

The minimum standards are demonstrated in three areas: grade point average (GPA), completed courses, and completion of the student's degree objective. Failure to maintain the required UNLV GPA, to earn the required number of credits annually, and/or complete the degree requirements in a reasonable time frame will result in suspension of the student's financial assistance. Once financial assistance has been suspended, students have the right to appeal. Appeals may be made upon presentation of supportive documentation (e.g., explanation from physician, faculty advisor, counseling center, etc.) with the Satisfactory Academic Progress Appeal form.

Students receiving financial assistance, including scholarships, are notified of the satisfactory academic progress requirements at the time the award is made.

**Grants:** Grants are monies awarded based on need; the lower the expected family contribution (EFC) as determined by the FAFSA application, the more likely a student may qualify for grant funding. Grants are awarded by UNLV, the state of Nevada, and the U.S. Department of Education utilizing your FAFSA information. Grant dollars have limited financial funding streams. For more information regarding grant opportunities, please refer to [www.unlv.edu/finaid/scholarships-grants](http://www.unlv.edu/finaid/scholarships-grants).

**Scholarships:** Scholarships are monies awarded by private donors based on a variety of criteria established by the donor of the scholarship program. Scholarships are awarded through the Financial Aid & Scholarships Office and departments and colleges. Scholarship awards vary from \$250 to \$22,000 per year. Many scholarship awards are renewable, but some are a one-time occurrence as specified by the donor.

For most scholarships, you are required to maintain enrollment in at least 12 credits (full time) per semester to make sure that the scholarship credits your account. Many outside agency scholarships require a full-time course load per semester as well. Your scholarship award notification should specify the terms and conditions. For more information regarding scholarship opportunities, please refer to <http://financialaid.unlv.edu/apps/ScholarshipSearch/index.asp>

**Student Loans:** A loan may be a good investment in yourself to help finance your education. Loans, which can help you pay your tuition and fees, as well as living expenses, must be repaid, usually after you graduate, withdraw from college, or drop below half-time enrollment status (fewer than six credit hours per semester for undergraduates or five credit hours per semester for graduates). For more information regarding interest rates and specific loan opportunities, please refer to <http://www.unlv.edu/finaid/loans/>



# Student Services & Activities

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## **studentlife.unlv.edu/**

The University is committed to placing students at the center of all that we do. In addition, we work to foster good citizenship and appropriate responsibility among all members of the university community. It is our job to create an environment in which students can learn—where they will be challenged, where they can take risks, where they will be safe. Students have opportunities for recreation and entertainment through intramural programs, athletic events, concerts, and other cultural events as well as opportunities for involvement in student government, campus activities, honor societies, and faculty research.

The Division of Student Affairs assists students in their intellectual, social, and personal development. We share responsibility for creating an environment that is conducive to learning and personal development. Programs and services within Student Affairs are organized in six units: Student Affairs Administration, Campus Life, The Center for Academic Enrichment and Outreach, Enrollment and Student Services, Police Services, and Student Wellness.

## **Office of the Vice President for Student Affairs**

**702-895-3656**

**studentlife.unlv.edu/administration.html**

The Office of the Vice President for Student Affairs is located in Flora Dungan Humanities Building (FDH), Room 514. The Vice President is responsible for coordinating services and programs offered within the Division of Student Affairs. Responsibility for the student judicial affairs process rests with the Vice President. The Vice President works with student leaders, contract providers, and division staff to ensure that students are well served.

## **Housing and Residential Life**

**702-895-3489**

**housing.unlv.edu**

The Office of Housing and Residential Life, in collaboration with the students living in the residence halls, is responsible for the development of a comprehensive housing and food service program. The residence halls are staffed by full-time professionals trained in counseling and college student development and by student peer advisors who undergo extensive training. Residence hall staff and students work together to create an environment that supports student academic achievement, healthy lifestyle choices, responsible behavior, and personal development.

The Office of Housing and Residential Life is located in Tonopah North. Students wishing to live in the residence halls must request a residence and dining hall contract directly from this office or can download the contract by accessing the Internet at housing.unlv.edu. Housing is available on a first come first-served basis to any full-time, regularly enrolled student. Freshman students graduating from high schools outside of Clark County, Nevada, are required to live in the on-campus residence halls unless excused by the Housing and Residential Life Office. For specific information on the freshman on-campus housing regulation, contact the Housing and Residential Life Office in Tonopah North or by telephone at 702-895-3489.

## **Freshman On-Campus Housing Regulation**

The University of Nevada, Las Vegas Freshman On-Campus Housing Regulation requires that all unmarried undergraduate freshman students who have been admitted for study and who are enrolled for a least 12 credit hours reside in university residence halls unless:

1. The student has been excluded from this requirement (see A below).
2. The student has been granted an exemption from this requirement (see B below).
3. The student has been excused from this requirement (see C below).
4. Space is no longer available in the residence halls.

### **A. Exclusion From the Freshman On-Campus Housing Regulation**

Exclusions from the on-campus living requirement will be provided for those students who, prior to July 1 for fall semester, December 10 for spring semester, or May 1 for summer term, submit appropriate documentation to the Office of Housing and Residential Life indicating that they have:

1. Married.
2. Achieved sophomore class standing by earning at least 24 semester credits.
3. Completed high school at least one calendar year previous and, because an independent living style has been established, it is unlikely that the residence hall experience would be educationally beneficial.
4. Been previously enrolled at this or another university as a full time student for a least two semesters or the equivalent.

### **B. Exemptions for the Freshman On-Campus Housing Regulation**

Graduates of high schools located in Clark County whose actual residence is with parents, guardians, or close adult relatives are automatically exempted from this requirement. Requests for exemptions from this regulation by students who graduated from high schools outside of Clark County must be submitted on the form available through the Office of Housing and Residential Life by July 1 for fall semester, December 10 for spring semester, or May 1 for summer term and may be approved if actual local residence is with parents, guardians, or close adult relatives not subject to the on-campus living requirement. The student is required to register with the Office of Housing and Residential Life and qualifies for exemption when the actual local residence is with parent, legal guardian, grandparent, adult aunt or uncle, or adult brother or sister and the actual local residence is within metropolitan Las Vegas, including greater Las Vegas, North Las Vegas, Boulder City, Henderson, and Blue Diamond.

### **C. Requests to Be Excused**

Requests to be excused from compliance with the Freshman On-Campus Housing Regulation will be considered by the Office of Housing and Residential Life provided the specific request supports a reason listed below and that the written request to be excused is received by the Office of Housing and Residential Life by July 1 for fall semester, December 10 for spring semester, or May 1 for summer term.

1. Medical necessity certified by a physician and approved by the Office of Campus Housing after reasonable accommodations are made in room assignment, facilities, or other adaptation.



2. Financial hardship supported by Family Financial Statement (FFS) or Family Aid Form (FAF) evaluated by the Office of Student Financial Services and approved by the Office of Housing and Residential Life in accordance with the established standards for the determination of financial hardship. Approximately six to eight weeks are needed to process the FFS or FAF forms, and no request for a financial hardship can be considered until the forms have been processed.
3. Special circumstances supported by compelling documentation. The denial or approval of the request will depend upon substantiation of the circumstances.

**D. Compliance with Regulation**

Compliance with the Freshman On-Campus Housing Regulation is a condition of initial registration and continuing enrollment at the University of Nevada, Las Vegas.

1. All regularly admitted students who have not earned 24 semester hours of college-level credits and who are enrolling as full-time students for either an academic semester (12 or more credits) or a summer term (six or more credits) are subject to this policy.
2. First-time freshmen requesting exemption or to be excused from the on-campus housing requirement must complete their requests with the Office of Housing and Residential Life prior to the dates specified in each section.
3. Transfer students to the University of Nevada, Las Vegas must present documentation of eligibility for exclusion in the form of transcripts to the Office of Housing and Residential Life

The Office of Housing and Residential Life is the only agent for administration of the Freshman On-Campus Housing Regulation. All approvals for waiver (exclusion, exemption, or excused) from this requirement must be in writing from the Office of Housing and Residential Life. Proof of compliance with the Freshman On-Campus Housing Regulation is the responsibility of the student, and failure to comply with this regulation may be cause for denial or cancellation of registration.

### **On-Campus Housing and Food Service**

Students choosing to live on campus will find themselves living in modern, comfortable, and conveniently located residence halls. All residence halls have been constructed or renovated since 1988 and are located in the southeast section of campus, only a few minutes' walk from the center of campus. Residence hall rooms, with few exceptions, are double-occupancy; two rooms share a bath. Each student will have a bed and mattress, study desk and chair, wardrobe or closet space, and drawers for storage. Ample lounge space for studying and socializing is found in each building. All buildings are air-conditioned, provide laundry facilities, and TV and are close to the Student Recreation and Wellness Center.

Students will find that a number of special features accompany residence hall living. Students have the opportunity to live in residential environments planned around specific themes such as freshman support programs, upper class programs, substance-free and study-intensive. Computer labs are available at no charge. Parking is located near most of the buildings. Residents are provided with local phone service from their room at no additional cost; long-distance service can be accessed by the use of a calling card.

Students choosing to live in the residence halls become members of a vibrant community. Students have the opportunity to participate in a wide variety of activities and take on leadership roles through

student program committees, the Residence Hall Association (student government), and student employment positions. New residents will find their floor a center of activity and learning. Guided by a resident assistant, a carefully selected and specially trained upperclassman, the floor members will establish and monitor floor standards and plan events, and will assist each other in mastering the challenges of college.

**Food Service:** The Hazel M. Wilson Dining Commons, immediately adjacent to the residence halls, was constructed in 1990. All residents must participate in the dining program, the cost of which is included in the residence hall fee. A variety of meal plans and eating options are available, providing students with a wide variety of food from which to choose a balanced diet. Special meals and dining events occur throughout the year. For health and safety reasons, cooking is not permitted in the residence halls.

**Residence and Dining Hall Costs:** The cost of room and board will vary depending on the meal plan selected. For detailed information about housing and food service fees, please contact the Housing and Residential Life office or visit our website at <http://housing.unlv.edu>

**Room and Board Refund:** Residence hall students officially withdrawing from the university will receive a room and board refund according to terms and conditions of the dining and residence halls contract.

**Applying for Housing:** On-campus housing, 702-895-3489, is offered on a first-come, first-served basis. Freshmen who have graduated from high schools outside of Clark County, Nevada, are required to live in on-campus housing. The Freshman On-Campus Housing Regulation is published in the Admissions section of this catalog. Questions regarding the regulation can be addressed to the Housing and Residential Life office. While approximately 2,000 beds exist on campus, the demand for housing usually exceeds availability. Interested students should request a contract directly from the Housing and Residential Life office or can download the contract by accessing the Internet at [housing.unlv.edu](http://housing.unlv.edu). Associated fees and all reservation information can be accessed on the website or questions can be addressed by calling.

**Other Housing:** Married students must seek housing off campus. More than 40 apartment complexes are available within walking distance of the campus. These rental apartments are available at a wide range of costs, depending upon the accommodations.

Students living off campus may purchase a commuter student meal card or pay for each meal in the Dining Commons.

### **Rebel Copy & Send 702-895-3213 [repro.unlv.ath.cx/](http://repro.unlv.ath.cx/)**

This full-service copy center is located on the first floor of the Student Union. It provides a wide range of digital printing services and FedEx shipping (ground and overnight) services and supplies for the UNLV community. Rebel Copy & Send produces color and black and white copies as well as thesis and dissertation printing, binding, wide-format printing for presentation and other types of posters, faxing, laminating, and scanning.

## **Student ID Card (Rebel Card) Services**

**702-895-2351**

**rebelcard.unlv.edu/**

You will need an identification card for various uses on campus, i.e., computer lab, library, physical education facility use, getting a parking permit, plays, concerts, selling back books, games room, CSUN elections, and student discounts.

The RebelCard is the official UNLV identification card. To get your RebelCard you must be registered and present a state or federal ID to the RebelCard Service Center located in the Student Union Room 118, next door to Starbucks. You can deposit money to your card and use it as a debit card (RebelCash) at participating locations both on and off campus. Office hours are 8 a.m. to 7 p.m. Monday - Wednesday and 8 a.m. - 5 p.m. Thursday and Friday.

## **UNLV Tickets**

**702-739-FANS (3267) or 866-388-FANS (3267)**

**unlvtickets.com/**

Ticket offices are located on campus to handle ticket sales to various events. Locations include:

- Performing Arts Center (702-895-2787)
- Thomas & Mack Center Special Events (702-739-3267).

## **Student Union and Event Services**

**Phone: 702-895-4449**

**Fax: 702-895-1609**

**eventservices.unlv.edu and studentunion.unlv.edu**

Student Union and Event Services provides modern space in the Student Union for the campus community to eat, study and gather under one roof as well as provides centralized scheduling and event planning services for Student Affairs Facilities, the Stan Fulton Building and campus green space. The Student Union is the hub of student activity on campus, featuring over 2 million guests each year. It is the place to meet, socialize, play, learn and grow - all in an active environment that fits the livelihood of UNLV.

Student Union & Event Services schedules and serves:

- Student Union
- Student Recreation and Wellness Center
- Stan Fulton Building Ballroom, Classrooms and Conference Rooms (new spring 2014)
- Summer Conference Housing (groups)
- Summer Intern Housing
- University green spaces (Alumni Amphitheater, Student Union Courtyard, North Field, Pida Plaza, Intramural Fields, and SRWC lawn)
- Services we provide:
- Scheduling and planning
- Customized event space set-ups
- In-house and rental of audio visual and other specialty equipment
- Business services for event Guests
- Full selection of audio-visual and other equipment
- Event-coordination services (if required or requested)
- Risk management assessment and planning
- Security and parking coordination
- Registration services
- Package shipping and receiving for event materials
- Recycling coordination and recommendations
- Food and beverage planning recommendations
- Day of event services

- Student Union marketing services (LED advertisements, table tents, banners, etc)
- Student Union and Student Recreation and Wellness Center marketing tables
- Information for on-campus resources

## **Career Services**

**702-895-3495**

**hirearebel.unlv.edu**

Assists all students with career planning, career development, and job searches. Students clarifying career decisions, seeking career-related experiences, or pursuing a professional job search can benefit from the many services of this office. Specifically, the office provides:

- Computerized career assessments
- Career counseling
- Internship assistance
- Career Fair events
- On-campus interviewing
- Hire A Rebel CareerLink; on-line postings for jobs, internships and career positions
- Resume-writing assistance
- Interview coaching (video-assisted)
- Career-related seminars and workshops
- Graduate School preparedness

Questions about career-related planning or issues should be directed to the department located in the Student Services Complex (SSC-A room 201) or by telephone at 702-895-3495. Our website is <http://hirearebel.unlv.edu>.

## **Disability Resource Center**

**702-895-0866**

**studentlife.unlv.edu/disability/**

The Disability Resource Center (DRC) is the officially designated office for supporting students with disabilities at UNLV. Students with disabilities are encouraged to contact the DRC about support, accommodations, and services available at UNLV. To access services through the office, students must apply to the DRC and provide current documentation of disability for review. Applying for services can be done on-line at [drc.unlv.edu/prospective.html](http://drc.unlv.edu/prospective.html).

The DRC collaborates with students, faculty and the university community to facilitate the creation of accessible environments that support student learning and success. The DRC strives to empower students by providing services that are designed to foster student independence, self-determination, and disability pride.

The DRC offers a wide range of supportive services (not special education resources) so that eligible students with disabilities can access and participate in university programs and courses. Services are provided on a case-by-case basis and may include such supports as note-taking services, testing accommodations, alternative media, assistive technologies, sign language interpreting or speech-to-text services, various other resources and referrals, faculty and staff consultation and workshops and presentations of various topics of interest to students with disabilities.

Questions about services or disability related issues should be directed to the DRC by phone at 702-895-0866, or by e-mail at [drc@unlv.edu](mailto:drc@unlv.edu). The center is located on campus in the Reynolds Student Services Complex, Building A in Room 143.

## **NCAA Academic Services and Compliance**

### **702-895-0668**

This office works in conjunction with academic programs and team coaches to provide advising, tutoring, computer access, and other academic support services for UNLV's 400+ intercollegiate athletes. Office staff may be contacted by telephone at 702-895-0668 or in person at the Flora Dungan Humanities Building, Room 422 (FDH 422).

## **Office of Veteran Services**

### **702-895-2290**

**veterans@unlv.edu**

The Office of Veteran Services is located in the Donald W. Reynolds Student Services Complex, Building A, Third Floor, Room 311, and is open Monday through Friday, 8 am – 5 pm. (Phone: (702) 895-2290. Home page: [unlv.edu/veterans](http://unlv.edu/veterans))

In 2012, UNLV established the Office of Veteran Services to better serve our growing student veteran and military family community by developing a welcoming, veteran-friendly campus environment that fosters academic and personal success. We understand the many challenges related to pursuing a degree while serving on active duty, as well as the challenges associated with making the leap from the military to the civilian world. Working with the Student Veterans & Military Family Services Committee to meet these needs, the office is staffed with veterans and GI Bill-experienced staff to assist more than 1,300 veterans, dependents, active duty service members, National Guard members and reservists with answers to questions concerning admissions, GI Bill enrollment certification, financial aid resources, campus and community support services, local veteran discounted-housing programs and various networks for veteran employment opportunities.

The benefits of attending UNLV Las Vegas:

- Nevada residency granted to all "honorably" discharged veterans within two years of separation
- Priority registration for all veterans to expedite payment of their housing allowance
- UNLV is ranked as a Top 15% "Veteran-Friendly" University (GLJOBS.COM 2011, 2012, 2013, 2014, 2015)
- UNLV has an office at the Nellis Air Force base
- UNLV is ranked as a Military College of Excellence by Military Advanced Education Journal (2014, 2015)
- UNLV has a VetSuccess VA program with a VA Benefits Counselor on campus
- UNLV is a Yellow Ribbon Fund participant
- UNLV sponsors a nationally recognized Student Veteran Organization and a REBEL Women Vets group
- UNLV has a Peer Advisor Veterans Education (PAVE) program of peer-mentors to welcome all new veterans
- VOCREHAB counselors come to UNLV to provide services
- Las Vegas has a new VA Regional Hospital with state-of-the-art medical services
- UNLV College of Education and the Clark County School District have partnered with DoD for a local "Troops to Teachers" program on campus.
- UNLV co-sponsors an annual Veteran Career Fair with national and local employers ready to hire you!

Certifying Services include:

- Certifying students' enrollment status to the Veterans Administration
- Making referrals to the Veterans Administration regarding benefits questions

- Providing the enrollment forms to be submitted each term, and related information
- Educating our student veterans on challenges relating to any disruption in VA payment, changes in the program, and dropped or added courses
- Providing key transition information for new and transferring students
- Providing students with information about any changes in VA regulations

## **Office of International Students & Scholars (OISS)**

### **For International Student Services:**

**Phone: 702-774-6477**

**Fax: 702-895-0155**

**Email: [OISS@unlv.edu](mailto:OISS@unlv.edu)**

### **For International Scholar Services:**

**Phone: 702-895-0218**

**Fax: 702-895-0165**

**Email: [scholar@unlv.edu](mailto:scholar@unlv.edu)**

The International Students and Scholars office (OISS) assists international students and scholars in their transition to UNLV and maintaining their immigration status while studying or working at the university. Initial inquiries about the university, admission applications, transcripts of previous college and universities, and I-20 issuance should be addressed to the Office of Admissions at [internationaladmissions@unlv.edu](mailto:internationaladmissions@unlv.edu).

Services provided by OISS include orientation, visa/immigration advising and documents for current students, personal and academic assistance, and social and cultural programs.

OISS is located in Enrollment Services Building, SSC-C.

## **Campus Recreational Services**

**702-774-7120**

**[SRWC.unlv.edu](http://SRWC.unlv.edu)**

The Office of Campus Recreational Services is responsible for developing and implementing a comprehensive recreational activities program that provides an opportunity to engage in organized activities for enjoyment, health, and social interaction. The activities that are scheduled and coordinated for UNLV students, faculty, and staff include intramural sports, outdoor equipment rental shop, Outdoor Adventures, and non-credit courses.

**Fitness and Wellness Programs:** This component of the department is responsible for all activities including; more than 250 exercise machines such as cardio and selectorized and free weights; group fitness classes including traditional and progressive class format; personal training and fitness assessments. Personal training, fitness assessment and body composition analysis can be scheduled in the Rebel Wellness Zone (RWZ), 2nd floor of SRWC. 702-895-4400, [www.unlv.edu/srwc/rwz](http://www.unlv.edu/srwc/rwz)

**Intramural Sports:** This component of the department is responsible for individual and dual activities such as tennis, Ping-Pong, racquetball, etc. Team sports offered include flag football, basketball, soccer, floor hockey, dodge ball, kickball, volleyball and softball. Special events that occur during the year include ooze ball (mud volleyball), Table tennis tournaments, video game console tournaments, etc. The Intramural Sports office is located in the Student Recreation and Wellness Center (SRWC). Additional questions

can be answered by calling our office at 702-774-7120 or going to our website at [SRWC.unlv.edu](http://SRWC.unlv.edu).

**Outdoor Equipment Rental Shop:** Students can rent camping or recreational equipment for an outdoor experience. Included in the inventory are two- and four-person tents, backpacks, sleeping bags, canoes, stoves, lanterns, snowshoes, coolers, volleyball sets and much, much more. The shop is located in the SRWC or can be contacted at 702-774-7120 or [SRWC.unlv.edu](http://SRWC.unlv.edu).

**Outdoor Adventures:** This unit is responsible for providing opportunities to individuals who wish to participate in outdoor pursuits. Outdoor Adventures trips include canoeing, hiking, backpacking, camping, snowshoeing, and rock climbing trips throughout the southwest. Information about the current adventures is available for pick-up in the SRWC, call 702-774-7120, or go to [SRWC.unlv.edu](http://SRWC.unlv.edu).

**Club Sports:** The office of Club Sports assists student organizations interested in recreational activities. Some of the clubs include rugby, boxing, lacrosse, water polo, volleyball, ice hockey, ultimate Frisbee, and tennis. Students interested in joining or starting a recreational club are encouraged to visit Club Sports in the SRWC or phone 702-774-7120, [SRWC.unlv.edu](http://SRWC.unlv.edu).

**Student Employment:** Opportunities exist in all areas of responsibility within the Campus Recreational office i.e. sports official, office attendant, fitness staff, outdoor trip leader, and supervisor positions. The main office is located in the SRWC. Additional questions can be answered by calling our office at 702-774-7120 or going to [SRWC.unlv.edu](http://SRWC.unlv.edu).

### **Office of Civic Engagement and Diversity (OCED)**

**702-895-5361**

**[unlv.edu/getinvolved](http://unlv.edu/getinvolved)**

The Office of Civic Engagement and Diversity helps students get involved through campus activities, leadership development opportunities, service programs, multicultural programs, international student programs, registered student organizations, Fraternities/Sororities and more. Each week there are an average of 8 student programs and events for you to attend. This office also oversees the Leadership and Civic Engagement minor. Involvement connects what you learn in the classroom with real-world experiences, helping prepare you for leadership positions in a global economy. For more information visit the OCED office in the Student Union.

**Campus Activities:** UNLV provides opportunities for students to participate in the life of the campus through events, traditions, and celebrations. A student planning committee, the Rebel Events Board, coordinates major events such as PREMIER UNLV, Homecoming, Rebels After Dark, movie and open mic nights, and other special events.

**Fraternity and Sorority Life:** There are 37 Greek letter social fraternities and sororities at UNLV. Greek organizations emphasize leadership development and philanthropic opportunities that further Greek traditions and ideals. Chapters belong to one of four governing councils: Multicultural Greek Council, National Pan-Hellenic Council, Interfraternity Council, and the Panhellenic Council.

**Multicultural Programs:** Provide an opportunity for students to explore cultural identity in a safe and inclusive environment. Multicultural Programs encourages and promotes social and academic integration of the underrepresented students. Programs include Cultural Leadership Retreat, Heritage Month Celebrations, and monthly educational programs.

**Service Programs:** Service work is a great way for students to make a meaningful contribution to the community. UNLV Volunteers is a student organization that coordinates service opportunities in the areas of homelessness, hunger, the environment, health, education and more. Alternate Break Trips planned on weekends and during academic breaks allow you to travel regionally to engage in service. Center for Social Justice: Located in the Housels House, the CSJ serves as a resource for students, staff, faculty, and community members to unite around, educate about, and advocate against social injustices that affect the campus, local, national, and global communities. The Rebel Advocates are a group of student peer educators that facilitate dialogs related to social justice.

**International Student Programs:** Provides and markets opportunities for international and domestic students to participate in social, educational, and cultural programming that builds both an educational and a supportive network. These programs include International Education Week, Festival of Communities, the Global Leadership Retreat and numerous other experiences.

**Student Organizations:** There are more than 250 recognized student organizations at UNLV, representing a wide variety of opportunities to get to know other students and to further explore your interests. Information on these organizations and resources for existing organizations can be found in the Student Organization Resource Center (SORCE) on the third floor of the Student Union or log into myUNLV and click on the Involvement Center.

### **Office of Student Conduct**

**702-895-2308**

**<http://studentconduct.unlv.edu>**

The Office of Student Conduct (OSC) collaborates with the UNLV community to provide an inclusive system through enforcement of the UNLV Student Conduct Code by:

- Promoting awareness of student rights and responsibilities;
- Establishing accountability for student choices;
- Creating opportunities for involvement in the process; and
- Striving to uphold the values and ethics that advance the common good.

Students' rights and responsibilities are outlined in the UNLV Student Code of Conduct which governs student behavior on campus. Each student is expected to become familiar with the expectations outlined in the Code. Based on the premise that all students share responsibility for creating a safe and supportive learning environment, the Code outlines procedures for disciplinary action against a student who violates the provisions of the Code. Copies of the Code of Conduct are available in the office of the Vice President for Student Affairs (FDH 514) and in the Office of Student Conduct (Central Desert Complex, Bldg. #1).

The Office of Students Conduct has responsibility for implementing the Code's provisions and creating educational interventions that assist students in meeting their responsibilities as members of the university community. This office may be reached by calling 702-895-2308.



## **Center for Academic Enrichment and Outreach**

**702-895-4777**

**[caeo.unlv.edu](http://caeo.unlv.edu)**

The mission of the Center for Academic Enrichment and Outreach (The Center) is to provide traditional and innovative educational opportunities to a diverse community through targeted services and research that promote personal success. The Center helps middle school, high school, and college students from low-income families (and from families where neither parent nor guardian has graduated from a four-year institution) access and graduate from institutions of higher learning. The Center's purpose, then, is to introduce higher education as an option to populations that have been traditionally underrepresented in postsecondary education because of class, social, physical, and cultural barriers.

The Center offers the following services: academic advising, tutoring, instruction in developmental courses (math, science, English, writing, reading comprehension, and English as a second language), assistance with college admissions and financial aid/scholarship applications, counseling on college-adjustment issues, school decisions and admissions, personal counseling, and referrals to other campus and community resources. The Center houses 16 federally funded TRIO programs (Ronald E. McNair Scholars Institute, three Student Support Services programs, two Upward Bound Math and Science programs, three classic Upward Bound programs, four Educational Talent Search programs, Educational Opportunity Center and two TRiO training projects), as well as three federally funded GEAR UP programs. Other initiatives within The Center include the Family Support Services, Parents Educational program, Mentor and Volunteer program, Summer Food Nutrition program, and Summer Youth Employment program.

**Ronald E. McNair Scholars Institute (McNair)** is committed to helping diversify the ranks of American faculty and of research institutions by encouraging undergraduate students who are members of underrepresented groups to pursue doctoral studies and consider faculty careers. Students who participate in this program are provided with research opportunities, faculty mentors, stipends, and publication opportunities.

**Student Support Services (SSS)** assists college students with overcoming personal concerns, academic deficiencies, and financial difficulties that could impair their chances of succeeding in college. It provides students with the necessary tools to develop life skills that aid in increasing retention and graduation rates and to adjust to the demands of the campus environment. Participants, who include disabled college students, receive individualized tutoring, guidance and counseling, financial aid assistance, remedial instruction, GRE/GMAT preparation assistance, and career exploration assistance.

**Upward Bound (UB) and Upward Bound Math & Science (UBMS)** help high school students prepare for higher education. Qualified participants receive instruction in literature, composition, and foreign languages, while maintaining a heavy focus on mathematics and science. The program has two components: academic year and summer residential. During the academic year component, participants attend classes and workshops at the UNLV campus, where they also receive academic and career counseling, tutoring, financial aid assistance, and college admission information. During the summer residential program, students live in the UNLV residence halls, obtain first-hand experience of being college students, participate in activities that promote educational and cultural enrichment, and receive regular program services.

**Educational Talent Search (ETS)** serves students in Grades 6 through 12 by providing academic advising/counseling, financial management, admissions requirements, and assistance with various student financial aid programs.

**Educational Opportunity Center (EOC)** assists qualified individuals 19 years of age and older to pursue postsecondary education. EOC assists qualified participants with choosing a career path and appropriate education channels as well as encourages high school dropouts to return to high school or obtain a GED (General Education Diploma). The goal of EOC is to increase the number of adult participants who enroll in postsecondary education institutions.

**TRiO Training Institute** provides professional development seminars for TRiO professionals from projects across the nation. Participants receive instruction regarding TRiO regulations and budget management, as well as workshops on assisting TRiO participants with college admission and the financial aid application process.

**GEAR UP** (Gaining Early Awareness and Readiness for Undergraduate Programs) (24) focuses on providing intense and intrusive services to entire grade levels of Clark County's poorest schools. The GEAR UP cohort model allows CAEO to serve more than 20,000 students, their parents, their school and their community. Services include instructional enhancements, after-school programming, teacher professional development, volunteer and mentor services, tutoring, skill-building workshops, parental workshops, a speakers' bureau, and much more.

In addition to providing direct services to participants, The Center conducts, contributes, and sponsors academic research aimed at enhancing the body of knowledge that supports the improvement of retention and academic attainment rates of the disadvantaged and underrepresented populations. The Center's objective is to increase the enrollment, retention and graduation rates of individuals who come from disadvantaged and underrepresented backgrounds. GEAR UP and TRiO programs at The Center are federally funded through the U.S. Department of Education. All services provided through The Center are FREE to those who qualify. The Center's offices are located in the Student Services Complex, Room 301, and at 1455 E. Tropicana Ave., Suite 400.

## **UNLV Department of Police Services**

**702-895-3668**

**[police.unlv.edu/](http://police.unlv.edu/)**

The Department of Police Services is divided into three units: the Police Patrol & Investigations Unit, the Police Records & Administration Unit, and the Police Communications & Dispatch Unit (Student Security Services is a part of this unit). All are service-oriented and provide a resource to the university community. The Police & Investigations Unit provides police services to the university 24 hours a day, 365 days per year. All officers are P.O.S.T. (Peace Officer Standards & Training) certified by the State of Nevada as Category 1 Police Officers and have the same authority as Las Vegas Metro officers in their respective jurisdictions. Police Officers are available for emergency assistance by calling 911. University Police provide other services including crime prevention presentations, bicycle & laptop computer registrations, ride-along, crime prevention forums called "Rebel Round-tables", "during fall and spring semesters" welfare checks, background investigations, security surveys, and special-event security for campus events. To inquire about any of these services please call 702-895-3668. The Police & Investigations Unit also registers and maintains a registry of all sex offenders enrolled

as students or working as employees of the university. The list can be viewed at <http://police.unlv.edu/policies/sexual-offender.html>. When necessary this list is used to warn the campus community and surrounding businesses of the presence of sex offenders within the campus community.

The Police Records and Administration Unit provides support services for the department and the university community. Several services are available to the campus community through this unit including: police report copy services, fingerprinting services, and lost & found services. To inquire about report copy and fingerprinting services please call 702-895-4747. Report copy services are available for a fee Monday through Friday from 8 a.m. to 5 p.m. Fingerprinting services are also available for a fee Wednesdays from 9 a.m. to 4 p.m. Lost and found services are based on employee availability and interested individuals should call 702-895-5795 in advance to make an appointment. The Police Records Office is also responsible for distributing the annual campus safety & security report, daily crime log and timely warnings to the campus to keep community members informed of any criminal activity on the campus. The most recent campus safety & security report or "Jeanne Clery" Report is available on the Internet at [police.unlv.edu/policies/campus-report.html](http://police.unlv.edu/policies/campus-report.html). The daily crime log can also be viewed on the Internet at [police.unlv.edu/policies/crime-log.html](http://police.unlv.edu/policies/crime-log.html). Timely warnings and crime alerts are circulated to the campus community as necessary via e-mails, intercampus mailings and posted flyers.

The Police Communications & Dispatch Unit provides a 24-hour emergency communications center for the UNLV Police Department that is open 365 days a year. In addition to providing this service the unit also provides the following services to the university community: campus emergency call boxes, alarm-monitoring capability, notary services and student security services. Notary services are based on employee availability. Student Security Services personnel are uniformed student employees who carry police radios and act as eyes and ears for the campus police. Suspicious activity is reported to campus police, but no intervening measures are taken by these students, who are not police officers. The Student Security Services Unit also provides a safety escort service to the campus community. Students studying late who wish to be escorted to their residence hall or vehicle need only call 702-895-3668, and a Student Security Services team will respond to escort them where they want to go (based on availability). In addition, Police Services works in cooperation with the UNLV Department of Parking & Transportation Services to provide vehicle assistance (jump starts and tire inflation) for stranded vehicles on campus during the off-hours when Parking Services is closed. If you need assistance with your vehicle please call the Parking Services Division at 702-895-1300; or if after hours, call Police Dispatch at 702-895-3668.

The Department of Police Services has expanded its operations and administration headquarters to three locations. The Police Communications & Dispatch Unit and Student Security Services are located on the main UNLV campus at the Claude I. Howard Public Safety Building located on Harmon Avenue, across the street from the Environmental Protection Agency complex and west of the Lied Library Building. The UNLV Police Headquarters Building is located just off the main campus at 1325 East Harmon Avenue east of the corner of Maryland Parkway and Harmon Avenue (directly behind the Carl's Jr.) The Police Headquarters Building is home to the Police Records and Administration Unit's operations. UNLV Police Services also has a police facility on the UNLV Shadow Lane Campus in the

Shadow Lane Campus Services Building (Building C). This facility houses UNLV Police Services' Shadow Lane police patrol.

UNLV Police Services manages an emergency notification system (E.N.S.), which is intended to provide all members of the campus community (faculty, staff and students) with messages regarding imminent or on-going emergencies via personal cell phones, university cell phones, personal e-mails and university e-mails. Enrollment in the system is completely voluntary and absolutely free "done through an 'opt out' system where all faculty, staff, and students are enrolled in the system from the moment they become part of the UNLV community. Automatic enrollment is only for university e-mail accounts, so anyone interested in receiving text and/or voice messages will have to add these contacts to the system. To register with add or update contact information to UNLV's E.N.S. simply go to the front page of the UNLV website at <http://www.unlv.edu> and scroll down the directory menu on the left in order to click on "Emergency Notification System", or you can go directly to <http://go.unlv.edu/safety/ens>. Once you have arrived on UNLV's emergency notification page you will have a brief overview of the system and be able to login & register. In order to register with the system you will have to provide your UNLV e-mail address as verification of your status as a campus community member. If you wish to remove yourself from the E.N.S. you may do so by contacting Assistant Chief Sandy Seda at 702-895-5046.

In the case of an immediate emergency or crime in progress, please call 911. You should know that dialing 911 from any campus phone will put you in direct communication with UNLV Police Dispatchers (not Metro). This system enhances UNLV Police response times thereby providing more immediate police services to the university community. For all non-emergency reports of crime on campus please call the UNLV Police Department at one of its non-emergency numbers (311 or 895-3668).

## **Student Health Services**

**702-895-3370**

**<http://www.unlv.edu/srwc/health-center>**

The Student Health Center is open Monday through Thursday from 8 a.m. to 6 p.m. and Friday from 9 a.m. to 5 p.m. The semester health fee allows registered and enrolled students to utilize the center without the added burden of paying an office visit co-pay. Services are available to students through same-day appointments; just call to schedule a reservation. Specialty clinics require a pre-scheduled appointment, so be sure to call ahead. The health center is staffed with physicians, nurse practitioners, physician assistants, registered nurses, and support staff to provide essential wellness and medical services on an outpatient basis. We are located within the Student Recreation and Wellness Center on the south side of campus.

Services include:

1. Treatment of minor illnesses and injury.
2. Early detection and referral of chronic illness or coordination of ongoing care.
3. Immediate first aid and blood pressure checks.
4. Screening tests for hearing and vision.
5. Evaluation of allergies, referral for initial antigen treatment, and continuation of allergy antigen injections.
6. Pregnancy testing and provision of contraception.
7. Screening exam and testing for sexually transmitted diseases, free HIV testing, and acute management of sexual abuse/assault.
8. Evaluation, assistance, and referral for substance abuse and eating disorders.

9. Low-cost lab tests available through our licensed lab with a licensed practitioner's order.
10. Standard prescription and non-prescription medications available through our licensed pharmacy.
11. Free health information and health education programs.
12. Evaluation by specialists: sports medicine, dermatology and gynecology.
13. For services not available on campus, referral lists to community physicians and services are available.

ALL MEDICAL RECORDS ARE CONFIDENTIAL. Information will not be released to anyone without the written consent of the student except as provided by law or in the case of life-threatening emergency. Students under the age of 18, by Nevada state law, are minors and must have a signed, notarized parental consent and release for medical care on file at the Student Health Center prior to care being given. These forms are available on-line at <http://www.unlv.edu/srwc/health-center/forms>.

**Student Health Fee:** The mandatory health fee is a program fee that supports the various services offered by the Student Wellness Cluster. These services not only support the mental health and medical facility on campus but also include wellness education and immunization programs.

**Student Health Insurance:** Is offered to UNLV undergraduate students admitted to a sponsored UNLV program and registered for six or more credit hours. All graduate students taking 9 credits or more per semester, all graduate assistants taking 6 credits or more, and all Law students taking 12 credits or more, must have health insurance coverage either through UNLV or the insurance carrier of their choice. What that means is that all full time graduate and professional students will be charged for UNLV student health insurance. If you are able to provide proof that you carry alternate insurance from a non-UNLV provider, you may qualify for a waiver, and the UNLV health insurance fee will be removed from your account. All F-1 UNLV international students are REQUIRED to purchase UNLV health insurance. International students are automatically charged health insurance fees when they register for classes.

**Mandatory Immunization Requirement:** The state of Nevada follows the guidelines of the U.S. Department of Health and Human Service Advisory Committee on Immunization Practices (APIC). Nevada Administrative Code 441A.755 states that a person shall not attend a college or university in this state without proof of immunity to tetanus, diphtheria, measles, mumps, rubella and any other disease specified by the state Board of Health unless excused because of religious belief or medical condition. Additionally, a student enrolled as a freshman of a Nevada university or college who is less than 23 years of age may not reside in an on-campus housing facility without proof of immunity to or vaccination against *Neisseria Meningitidis* (meningitis). Students must provide proof of immunity or vaccination directly to the Office of Admissions.

### **Student Counseling & Psychological Services 702-895-3627**

**[studentlife.unlv.edu/caps/index.html](http://studentlife.unlv.edu/caps/index.html)**

Pursuing a university education can be exciting and challenging. It can also be highly stressful since social and personal concerns can interfere with students' academic work and emotional well-being.

Student Counseling and Psychological Services is committed to helping students benefit fully from their college experience at UNLV. Our psychologists, counselors, and psychiatrist specialize in dealing with the problems commonly experienced by college students of all ages and backgrounds. We collaborate with students to increase self-understanding and develop the skills necessary to overcome personal concerns.

Confidential services offered to assist students manage the adjustment demands and personal challenges of college include:

- Individual counseling
- Group Counseling
- Couples counseling (At least one member of the couple must be a currently enrolled UNLV student.)
- Crisis assessment and intervention
- Psychological assessment and testing.
- Drug and alcohol use assessment.
- Medication evaluation and management
- Referrals to community health care providers when the student's needs cannot be adequately provided for within the limits of a short-term therapy approach.
- Educational workshops and presentations.
- Consultation to members of the campus community (faculty, staff, and students).

All currently enrolled UNLV students who paid their Student Health Fee are eligible for confidential counseling services. Please call us at 895-3627 to schedule an initial intake appointment. Our office hours are Monday through Thursday from 8 a.m. to 6 p.m. and Fridays from 9:00 a.m. to 5 p.m. For situations that need immediate attention, a crisis counselor is available during operating hours.

Our services are provided free of charge, except for certain psychological testing and cost of medication. We are located on the third floor of the Student Recreation and Wellness Center. For more information, call us at 895-3627 or visit our website at <http://www.unlv.edu/srwc/caps>

### **Rebel Wellness Zone (RWZ) - Wellness Promotion**

**Phone: 702-895-4400**

**<http://www.unlv.edu/srwc/rwz>**

**Location: 2nd Floor SRWC**

The Rebel Wellness Zone is your wellness and recreation resource on campus. Our programs and services enhance the collegiate experience and encourage lifelong personal wellness. It's a place for you to relax, recharge and learn to help a friend and yourself! The RWZ and Wellness Promotion staff offer a safe space for GLBTQIA and students in recovery. Programs and services offered via the RWZ include:

- Relaxation Room with automated massage chairs. Free! Call 895-4400 to reserve or drop-in. [www.unlv.edu/srwc/wellness-promotion/relaxation-room](http://www.unlv.edu/srwc/wellness-promotion/relaxation-room)
- Registered Dietitian - Nutrition consultations are free for students who have paid the Student Health Fee. Same-day appointments only. Call 895-4377 or 895-3370. [www.unlv.edu/srwc/wellness-promotion/dietitian](http://www.unlv.edu/srwc/wellness-promotion/dietitian)
- Free HIV Testing Clinics offered 2-3 times each semester. Check our website for current semester's dates/times. Tests are always available for a fee in the Student Health Center. [www.unlv.edu/srwc/wellness-promotion/sexual-health](http://www.unlv.edu/srwc/wellness-promotion/sexual-health)
- Personal Training – Convenient and affordable! Hire a personal trainer to help motivate, educate and guide you to your fitness goals. [www.unlv.edu/srwc/fitness-rec/personal-training](http://www.unlv.edu/srwc/fitness-rec/personal-training)



- Fitness Assessments – The first step in developing your fitness goals. Includes measures of flexibility, strength, cardiovascular endurance and body composition. /www.unlv.edu/srwc/fitness-rec/assessments
- Healthy Rebel Peer Educators – Student organization of peers who teach, advocate, and encourage healthier lifestyles on campus. www.unlv.edu/srwc/groups/healthy-rebels
- HYPER: Collegiate Recovery Support – Student organization of peers helping each other through recovery from substances. www.unlv.edu/srwc/groups/hyper
- Campus programs/presentations/events – We host events on campus and offer presentations and programs on alcohol and other drugs, impaired driving, nutrition, physical activity, stress management, sleep, safer sex, relationship communication, body image and more!
- BACCHUS Certified Peer Educator Training – Leadership empowerment training to become a peer educator and teach with us. National Certification. www.unlv.edu/srwc/education-workshops
- Resource brochure library and safer sex kits can be found in our lounge
- Internships, practicum hours and professional leadership opportunities available! www.unlv.edu/srwc/wellness-promotion/internships

### **The Jean Nidetch Women's Center**

**Phone: 702-895-4475**

**Fax: 702-895-0601**

**womenscenter.unlv.edu**

The Jean Nidetch Women's Center is a resource center committed to meeting the diverse needs of the UNLV campus community by providing programs and services to educate, support, motivate, and empower lives. With an emphasis on women's concerns, the Women's Center promotes self-awareness and self-sufficiency, equity, and an understanding of the evolving roles of men and women. It provides a safe and comfortable atmosphere for people to network, build community, and reflect the diversity of the UNLV campus community. Our programs and services are:

- Workshops and seminars—We offer a variety of workshops on topics including the promotion of non-violence, women's health, advocacy against domestic violence, and sexual-assault prevention.
- Special events—Special events such as "Take Back the Night" as well as guest speakers and activities sponsored in conjunction with campus and community groups are ongoing.
- Internships, practicum and projects—Undergraduate and graduate students are encouraged to explore applying theory to practice through their respective academic discipline. Projects, internships and special events are opportunities for students to get involved and advance their academic goals.
- We have a lactation room onsite for mom's who would like to breastfeed or pump.

All students are welcome to visit the JNWC on the second floor of the Student Service Complex, Room #255 (located directly behind the Cox Pavilion).

### **Student Activities and Organizations Student Organization Resource Center 702-895-5576**

**<http://getinvolved.unlv.edu/connection>**

The Student Organization Resource Center assists students seeking information on how to get involved on campus. They provide contacts for the more than 200 recognized student organizations at UNLV and information on upcoming campus events and activities. Students involved in organizations will find resources to support marketing and event implementation as well as computers and printers for student organization business. Student organization funding sources and monthly educational workshops for student organizations and their advisors are also provided.

**The Rebel Yell, 702-895-1512:** The campus newspaper is produced and edited entirely by students, reflects student viewpoints and provides a learning experience for all interested students. The newspaper is distributed free on campus two times a week and can be viewed online at <http://unlvrebelyell.com/>

**KUNV, 91.5 FM, 702-798-9169:** KUNV is the nonprofit, broadcast service of the University of Nevada, Las Vegas. The radio station offers quality cultural, informational, and entertainment programming to the Las Vegas community, and provides educational opportunities for students pursuing careers in the broadcast field. Internships, independent study and volunteer work can be arranged directly with KUNV or through the Journalism and Media Studies program in the Greenspun College of Urban Affairs.

### **Student Government (CSUN)**

**702-895-3645**

**[www.unlvcsun.com](http://www.unlvcsun.com)**

All undergraduate students are automatically members of the Consolidated Students of the University of Nevada, Las Vegas (CSUN) upon paying their fees and tuition. CSUN is made up of three branches:

- Executive Branch (President, Vice President, Senate President, Vice President Pro-Tempore, Senate President Pro-Tempore, and eight Directors).
- Legislative Branch (25 Senators representing each undergraduate college).
- Judicial Branch (nine Justices appointed to two-year terms).

All officers are elected by the student body and most serve one-year terms. CSUN has many boards and committees available for students to get involved; visit their main office in the Student Union for details and applications. Copies of the CSUN Constitution and all CSUN meeting agendas are available on their website and various locations around campus.

The goal of CSUN is to enhance the students' college experience by offering needed services, desired programs, leadership opportunities, exciting entertainment, and enriching lectures. Most importantly, the primary focus is to serve as representative of the students to the university administration and the local, state, and community governments.

### **Executive Branch**

The Executive Branch oversees all of the actions of CSUN. The members are elected by the student body at the general election in April, and the newly elected officers serve a one-year term beginning May 1.

The Executive Branch appoints eight Directors to assist with the responsibility of various activities, such as entertainment &



programming, campus life, student information, CSUN services, elections, Nevada student affairs, publications, and marketing. Directors have their own board composed of undergraduate students who help decide and carry out the mission of CSUN.

A Volunteer Board has been created for students who want to help out with just a few of the events each year.

### Legislative Branch

The Legislative Branch (the Senate) is made up of 25 undergraduate students elected from each of the 11 colleges on campus. Senate elections are held in October and the newly elected Senators serve one-year terms beginning and ending Nov. 1.

Below is the apportionment for UNLV

Business	4 Senators
Education	2 Senators
Engineering	2 Senators
Fine Arts	2 Senators
Health Science	1 Senator
Hotel Administration	3 Senators
Liberal Arts	3 Senators
Nursing	1 Senator
Sciences	2 Senators
Urban Affairs	2 Senators
University College	3 Senators

The following is a list of Senate committees and their areas of responsibility. Each committee is composed entirely of CSUN Senators:

- Ways and Means (prepares the annual CSUN budget)
- Campus Safety and Awareness (works with Police Services to advocate safety issues on campus)
- Constitutional Revisions and Statutes (revises the CSUN Constitution)
- Bylaws (revises the Senate bylaws)
- Rules and Ethics (adjudicates violations of CSUN and University Codes brought against CSUN Student Government members)
- Scholarship (collects applications and selects recipients of CSUN scholarships including the Tom Wiesner, pre-professional, leadership, head start, CSUN, and student teaching scholarships)

### Judicial Council

The Judicial Council is an autonomous branch of Student Government and is responsible for interpreting the CSUN Constitution to determine the legality of any actions taken. Judicial Council members are undergraduate students nominated by the Executive Board and confirmed by the Senate to serve a two-year term from the date of their appointment. The council is chaired by the Chief Justice and is composed of nine members.

CSUN assumes responsibility for recognizing student organizations each semester. These student clubs and organizations supplement intellectual and social development at the University of Nevada, Las Vegas.

### Honors, Awards, and Scholarships

**Nevada Centennial Medallion Award:** A silver medallion is presented each year to the graduating senior who achieved the highest four-year scholastic record at the university. The first medallion, representing the state's 100th birthday, was awarded June 3, 1964, to a senior in UNLV's first graduating class. The last of 101 medallions made available by the Rotary Club of Las Vegas will be presented in the year 2064 on Nevada's bicentennial anniversary. A plaque listing all the recipients hangs in the library.

**Phi Kappa Phi Medallion:** Graduating seniors who have been initiated into UNLV's chapter of Phi Kappa Phi National Honor Society are presented with bronze medallions hung on a blue cord to wear over the gown at commencement. Each year UNLV's chapter of Phi Kappa Phi invites to membership the top members of the senior and junior class in all academic disciplines

### Lee School of Business

**Phi Gamma Nu Award.** Presented to the graduating senior with the highest grade point average.

**Wall Street Journal Student Achievement Award.** Given to an outstanding business student.

### College of Education

**Lilly Fong Outstanding Student Teacher Award.** Presented to an outstanding senior completing student teaching.

**Science and Art Technology.** Presented to an undergraduate or graduate seeking initial licensure with a science or art education major.

**Evelyn Semling Endowment.** Presented to sophomores, juniors, and seniors in undergraduate programs in elementary education.

### College of Fine Arts

**Colonel Koch Award.** Presented to an outstanding art student.

**Outstanding Achievement in Art Award**

**Outstanding Choreographer Award in Dance**

**Outstanding Graduating Music Student Awards**

**Outstanding Performer Award in Dance**

**Outstanding Scholar Award in Dance**

**Outstanding Theatre Arts Senior Award**

### Division of Health Sciences

**E.R. Squibb and Sons Award.** Presented for outstanding achievement in nuclear medicine and radiological sciences.

**Outstanding Student Awards in Nursing.** The Clark County Medical Society Auxiliary presents awards to outstanding students in the baccalaureate degree programs.

### School of Nursing

**Outstanding Student Awards in Nursing.** The Clark County Medical Society Auxiliary presents awards to outstanding students in the degree programs.

**Mary Lou Loveday Endowed Memorial Scholarship:** Memorial scholarship offered to a full-time student with children at home.

**Maria Tiberti Nursing Scholarship:** Awarded by the Tiberti Foundation to a full-time prenursing or nursing student.

**Alfred and Marjorie Rappaport Foundation:** Awarded by Lahr Foundation to full-time undergraduate and graduate students.

**Harry and Rebecca Lahr Scholarship:** Awarded by Lahr Foundation to full-time undergraduate and graduate students.

### College of Hotel Administration, William F. Harrah

**Merit Award of American Hotel Foundation.** Presented for meritorious achievement to a finalist in nationwide competition for the Arthur J. Packard Memorial Scholarship.

**Outstanding Achievement in Hotel Accounting.** Presented to a hotel student showing superior academic achievement overall and in accounting by the Las Vegas chapter of the International Association of Hotel/Motel Accountants.

**William Weinberger Award.** Presented to the outstanding graduating senior in hotel administration.

## **College of Liberal Arts**

Audrey Lorde Award for the Outstanding Student in Women's Studies. Established to honor a graduating women's studies major who has demonstrated outstanding scholarship, service, and activism within the field of women's studies.

Award for Excellence in Philosophy. Given to a junior or senior majoring or minoring in philosophy, based on a paper submitted in an annual competition.

Bourse de L'Alliance Francaise Awards. Given to outstanding students majoring in French.

The Del Harrison-Pi Sigma Alpha Award. Presented for excellence in political science.

Hiram Hunt Poetry Award. Presented for excellence in poetry.

History Department Award. Given for best pro-seminar paper.

John S. Wright Award. Given for best graduating history major.

Maura Kaufman Award. Presented to an outstanding student majoring in English.

Richard H. Byrns Award. Presented to an outstanding student majoring in English.

Ralph Roske Award. Given for best beginning history major.

Outstanding Student in Psychology. Presented to the outstanding senior in psychology.

Psi Chi Distinguished Service Award. Presented to a graduating senior for outstanding service contributions.

Undergraduate Research Award. Presented to seniors in psychology for outstanding achievements in research.

University Forum Fellowships. Two fellowships awarded to juniors, one of whom must be a major in liberal arts, while the other may be a major in any college, including liberal arts.

VISTA Award. For the outstanding graduating senior in the College of Liberal Arts.

C. Wright Mills Student Award. Awarded to an outstanding graduating senior in sociology.

## **College of Sciences**

American Institute of Chemists Student Award. Given to an outstanding senior in chemistry

American Chemical Society Undergraduate Award in Analytical Chemistry

American Chemical Society Undergraduate Award in Organic and Polymer Chemistry

Anne Wyman Mineralogy Award

Boulder Dam Section of the American Chemical Society. Given to an outstanding chemistry student

Bradley/Dill Award. Awarded to outstanding students in biological sciences

Chemical Rubber Company Chemistry Achievement Award. Presented to an outstanding freshman chemistry student

Chemistry Department Awards for Achievement in General Chemistry

Clark County Gem Collectors, Inc. Presented to outstanding geology students

Geological Society of Nevada Scholarship

Outstanding Graduating Senior in Mathematics Award

Outstanding Beginning Physics Student Award

Ronald L. Lynn Award. Given for outstanding service to the geoscience department

Terry Evans Memorial Award. Given to exceptional students in aquatic biology

## **College of Urban Affairs, Greenspun**

Outstanding Student of the Year in the Department of Social Work

# University Policies

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The conduct of all persons affiliated with the University of Nevada, Las Vegas is governed by Rules and Disciplinary Procedures for Members of the University Community. This code outlines the responsibilities of students, faculty, staff, and administration as well as the rules, sanctions, and hearing procedures in effect on the campus. Additionally, a student conduct code provides standards for student behavior.

Printed copies of these codes are available in the office of Student Conduct, CDC 1 118 702-895-2308. For the most recent version of the policy, visit <http://studentconduct.unlv.edu/>

## Student Academic Misconduct Policy

### STATEMENT OF PURPOSE

UNLV is first and foremost an academic community, with its fundamental purpose the pursuit of learning and student development, and enabling all to reach their highest potential.

UNLV asserts that any instance of academic misconduct hurts the entire community, and that the values of honesty, trust, respect, fairness, responsibility and professionalism are paramount.

UNLV will uphold these standards through fair and objective procedures governing instances of alleged student academic misconduct.

### ENTITIES AFFECTED BY THIS POLICY

All academic units, libraries, and/or units with teaching and research faculty.

### WHO SHOULD READ THIS POLICY

Administrators, academic faculty, staff and students who would be affected by this policy.

### POLICY

#### I. EXPECTATIONS

Integrity is a concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility, and professionalism. By choosing to join the UNLV community, students accept the Student Academic Misconduct Policy and are expected to always engage in ethical decision-making. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution.

##### A. HONESTY

Honesty is the foundation of teaching, learning, research and service; and is the prerequisite for full realization of trust, fairness, respect and responsibility. Students and faculty alike must be honest with themselves and others.

##### B. TRUST

The UNLV community fosters a climate of mutual trust, encourages the free exchange of ideas. Only with trust can the public believe in the social value and meaning of an institution's scholarship and degrees.

##### C. FAIRNESS

We strive to establish clear standards, practices, and procedures and we expect fairness in the interactions of students, faculty

and administrators. Important components of fairness are predictability, clear expectations, a predictable and transparent process, as well as consistent and just responses.

#### D. RESPECT

As an academic community of integrity, we recognize the participatory nature of the learning process and honor and respect a wide range of opinions and ideas. Students and faculty must respect themselves and each other as individuals. All must show respect for the contribution of others by acknowledging their intellectual debts.

#### E. RESPONSIBILITY

Every member of an academic community—each student, faculty member and administrator—is responsible for upholding the integrity of scholarship and research. Individuals must take responsibility for their own honesty and must tolerate and ignore academic dishonesty on the part of others.

#### F. PROFESSIONALISM

Because students are aspiring professionals, our community expects them to exercise professional conduct during their career as students and uphold the core value of integrity.

## II. ACADEMIC MISCONDUCT VIOLATIONS - DEFINITIONS

Academic misconduct is intentional or unintentional occurrence of the following:

- A. Using the words or ideas of another, from the Internet or any source, without proper citation of the source(s), commonly called plagiarism.
- B. Receiving unauthorized external assistance during an examination or any academic exercise for credit. This includes, but is not limited to:
  1. Providing or receiving aid in connection with any academic assignment;
  2. Use or possession of camera telephones, text messages, computer disks, audio recorders, calculators, solution materials, photocopies, materials from previous classes, commercial research services, notes or other means to copy or photograph materials used or intended for academic evaluation or assignment;
  3. Communication in any manner with another student;
  4. Working with others on graded coursework, including in-class, on-line and take-home examinations; or
  5. Possessing, reading, buying, selling or using any materials intended for an academic evaluation or assignment in advance of its administration.
- C. Turning in the same work in more than one class (or when repeating a class), unless permission is received in advance from the instructor.
- D. Falsifying information for inclusion in an assigned paper, project or exercise; including inventing or altering data from a laboratory or field project, or creating fictional citations for a paper.
- E. Attempting to influence or change any academic evaluation, assignment or academic records for reasons having no relevance to academic achievement. This includes, but is not limited to, bribery, threats and making unauthorized changes to any academic record.

- F. Falsifying or misrepresenting attendance, hours, or activities in relationship to any class, internship, externship, field experience, clinical activity or similar activity.
- G. Acting or attempting to act as a substitute for another, or using or attempting to use a substitute, in any academic evaluation or assignment.
- H. Facilitating, permitting or tolerating any of the above-listed items.

### **III. PROCEDURES FOR HANDLING STUDENT ACADEMIC MISCONDUCT**

These procedures are designed to encourage a fair and appropriate response to allegations of student academic misconduct. They may be modified in individual cases, so long as the student agrees to the proposed modifications, is provided an opportunity to respond to allegations of academic misconduct within a reasonable time after the allegations have been made, and the modifications do not violate fair process.

- A. Anyone with a good-faith basis for believing a student has violated this policy may report the alleged violation to the responsible instructor, chair/ director, dean or appropriate designee within the academic unit. The person who pursues the allegation may be the responsible instructor or a designee appointed by the supervisor of the academic unit in which the course is located. It is expected that appropriate review and consultation with a supervisor, chair and/or director is a part of this process.
- B. A faculty member or primary course instructor who suspects that a student has committed an act of academic misconduct:
  - 1. Shall notify the student of the nature of the allegation and offer the student an opportunity for an initial meeting to discuss the allegation and to present any relevant information. When possible, this initial meeting shall occur within five (5) college working days of discovery of the alleged violation. (or)
  - 2. Shall notify the student of the nature of the allegation and schedule an initial meeting with the student within five (5) college working days of discovery of the alleged violation. The message shall contain the following:  
 "This message concerns the \_\_\_\_\_(paper, report, assignment, etc.) that you submitted in partial fulfillment of the course requirement in your \_\_\_\_\_(course number and section) class on \_\_\_\_\_(date). My initial examination of that (paper, report, assignment) reveals that you may have violated the UNLV Student Academic Misconduct Policy. I request that you meet with me on \_\_\_\_\_(date of initial meeting) at \_\_\_\_\_(time) in \_\_\_\_\_(location)." (parenthetical material deleted)
- C. Proceedings in case discussions are informal and non-adversarial. The responsible instructor/designee may make a verbal agreement on, or provide the student with a written or electronic notice of, a scheduled meeting. The responsible instructor/designee may request a witness to be present for this meeting. In compelling circumstances, this initial meeting may also be referred to the appropriate Office of Student Conduct (OSC) officer or designee. This option shall occur only after consultation with OSC.
- D. The purpose of this initial meeting will be to review and discuss the charges before a decision is reached. The responsible instructor/designee may use documentary evidence, provided

the student is allowed to respond to it at the meeting. At the sole discretion of the responsible instructor/designee, a student may bring relevant witnesses and/or an advisor. Neither the responsible instructor/designee nor the student may have legal counsel as their advisor at an initial meeting. An advisor is not permitted to participate directly or speak for the student, but may only be present during initial meetings or any subsequent university hearings.

- E. At this initial meeting, the following results may occur:
  - 1. The allegations are dismissed.
  - 2. The student accepts responsibility for the violation and accepts the academic sanction(s).
  - 3. The responsible instructor/designee believes a violation occurred with the student not admitting responsibility and requesting a hearing.
  - 4. The student accepts responsibility for the violation but does not accept the academic sanction(s) and requests a hearing.
- F. In any of the above circumstances, the "UNLV Alleged Academic Misconduct Report" form shall be completed, with a signed copy being provided to the student. Authority and jurisdiction for actual determination of academic misconduct and appropriate academic sanctions are with the primary instructor of the class and/or assignment or the approved departmental process in accordance with the academic unit chair's/director's/supervisor's/ dean's approval. If the responsible instructor/designee facilitating the initial meeting is not the primary instructor, appropriate communication regarding such sanctions is necessary before signing the UNLV Alleged Academic Misconduct Report form.
- G. Upon completion of this initial meeting/approved departmental process, if the responsible instructor/designee believes academic misconduct has occurred at any level, he or she shall notify the Office of Student Conduct (OSC) for resolution of a UNLV Student Conduct Code violation. Notification to OSC shall include a copy of the signed UNLV Alleged Academic Misconduct Report form and copies of any relevant documentation used in determining the violation. The responsible instructor/designee shall forward the Alleged Academic Misconduct Report and copies of relevant documentation within ten (10) college working days of discovery and/or initial meetings with the student.
- H. OSC will notify the charged student per notification procedures specified in the UNLV Student Conduct Code, which can be found at <http://studentconduct.unlv.edu>. The student will be informed of his or her applicable rights and the process(es) for accepting the academic and conduct sanctions and/or appealing the academic decision and sanctions.
- I. If the student does not attend the initial meeting, the instructor shall forward the charge to the Office of Student Conduct.

### **IV. HEARING AND APPEAL PROCEDURES FOR ACADEMIC MISCONDUCT**

- A. In any case where a student requests a hearing beyond the initial meeting, it shall occur in the following order:
  - 1. If the student wishes to appeal the findings of the chair/ director/designee/committee, he/she must file the appeal of the decision and any sanctions to the UNLV Academic Integrity Appeal Board. This appeal must be filed within five (5) college working days of the student's initial meeting



with the Office of Student Conduct. The Academic Integrity Appeal Board will meet and all parties will be notified within fifteen (15) college working days of the outcome of the appeal; sending its decision to the student, instructor, department/unit and Office of Student Conduct. The decision of the Academic Integrity Appeal Board will serve as the final place of appeal.

2. The UNLV Academic Integrity Appeal Board shall have the option of inviting the student and responsible instructor or department designee, and allow for witnesses of each party. If the Academic Integrity Appeal Board invites either party of the allegation to the hearing, both parties shall be invited.
  3. When a student is appealing the academic sanctions given as a result of an allegation of academic misconduct, and when such sanctions are provided in departmental publications and/or in the responsible instructor's class syllabus, close consideration of materials will be given based on the clarity of the publication.
  4. In cases involving suspension, the Academic Integrity Appeal Board's decision shall constitute a recommendation to the Vice President of Student Affairs (VPSA), who shall have final authority. In case involving expulsion, the Academic Integrity Appeal Board's decision shall constitute a recommendation to the President, who shall have the final authority.
- B. A student alleged to have committed academic misconduct is not permitted to withdraw from the class in question unless the matter is resolved in the student's favor, without the responsible instructor's expressed permission, and may not be permitted to do so if withdrawing from the class would negate the academic sanction.

## **V. CONFIDENTIALITY OF RECORDS**

All records in relation to a student misconduct case will be maintained in accordance with the Family Educational Rights and Privacy Act (FERPA) of 1974 and the U.S. Department of Education guidelines for implementation. Transcripts of academic records shall contain information about academic status, including disqualification for academic or conduct reasons, and expulsion, suspension and revocation of admission for disciplinary reasons. In accordance with UNLV policy and the U.S. Family Education Rights and Privacy Act of 1974 (FERPA), UNLV vigorously protects the privacy of student education records. UNLV's FERPA policy is located in its entirety at [FREPA.unlv.edu](http://FREPA.unlv.edu).

## **VI. SANCTIONS FOR ACADEMIC MISCONDUCT**

Potential sanctions for academic misconduct may include, but are not limited to, any one of the sanctions listed below singularly or in combination with each other:

- A. Academic Sanctions NOTE: Each of the above may be agreed upon at the initial meeting.
  1. Resubmitting an assignment
  2. Reduction of points/letter grade for the assignment
  3. Dropping a class
  4. Reduction of points/letter grade for class
  5. Failing grade for assignment
  6. Failing grade for class
- B. Conduct Sanctions
  1. Reflection letter of understanding

2. Skill Remediation
3. Academic Integrity Seminar
4. Conduct Warning or Probation
5. Loss of Privileges\*
6. Transcript notation (approved by Dean/Academic Unit Equivalent)
7. Suspension or removal from program, school or college (approved by Dean/Academic Unit Equivalent)
8. Suspension
9. Expulsion
10. Withdrawal of credit for previously accepted course or requirement
11. Revocation of a degree or certificate
12. Referral to the appropriate legal authorities

\*In instances where it is determined that the academic misconduct is of both an intentional and egregious nature, and the resulting academic sanction is a failing grade in the course, the student may lose privilege of evaluating a course instructor.

## **VI. GENERAL POINTS**

- A. All time limits specified in this policy should be extended for good cause.
- B. This policy is not intended to address differences of opinion over grades issued by an instructor exercising good faith and professional judgment regarding a student's work.
- C. Before any action is taken under this policy that may result in the withdrawal, suspension or expulsion of an international student; both the student and the academic program are advised to consult with the UNLV Office of International Students and Scholars.

## **VII. ACADEMIC INTEGRITY APPEAL BOARD**

- A. The Academic Integrity Appeal Board members will come from a variety of areas on campus and will serve two-year terms, with the exception of the members from the UNLV Faculty Senate Academic Standards Committee. To create the overall campus-wide pool of Academic Integrity Appeal Board members:
  1. The faculty of each college/school shall designate:
    - Two (2) faculty members
  2. Each Dean's Office/Academic Unit Equivalent shall designate:
    - Two (2) administrators/professional staff
    - Two (2) undergraduate students
    - Two (2) graduate students
  3. In addition, the following will be members of the pool:
    - a. All members of the UNLV Faculty Senate Academic Standards Committee, during their term on the Committee (See VIII.B. below).
    - b. When an appeal of an academic misconduct case is forwarded to the Academic Integrity Appeal Board, the hearing panel for each case will consist of the following, drawn from the pool:
      - One (1) academic faculty member
      - One (1) student
      - One (1) administrative faculty or Academic Standards Committee Member.
- B. Any member of the Academic Integrity Appeal Board pool may serve on a hearing panel unless there are compelling academic discipline issues to be addressed at such hearing.

In such cases, specifically designated pool members may be assigned from the college/school in which the alleged academic misconduct occurred. All efforts to eliminate or avoid conflict of interest and bias will be given in each case.

- C. Before serving on an Academic Integrity Appeal Board hearing, members shall receive an orientation and training on academic integrity and misconduct.
- D. Recruitment, training and facilitation of the Academic Integrity Appeal Board will be the responsibility of the Office of Student Conduct, in collaboration with the UNLV Faculty Senate; and with appropriate authority and jurisdiction being afforded to university designees as dictated in the NSHE and UNLV Student Conduct Codes.

## **VIII. TRANSCRIPT NOTATION FOR ACADEMIC MISCONDUCT**

- A. In instances where it is determined that the academic misconduct is of both an intentional and egregious nature, the conduct sanction shall be recorded on the student's official and unofficial transcript with a transcript notation. The transcript of the student shall be marked "Disciplinary Notation due to Academic Dishonesty in (class) during (semester)." The transcript notation shall occur only upon completion of the student conduct proceedings. The conduct sanction notation shall not affect the grade point average, course repeatability or determination of academic standing. This conduct sanction notation is intended to denote a failure to accept and exhibit the fundamental value of academic honesty.
- B. Once a conduct sanction notation is made, the student may file a written petition to the Academic Integrity Appeal Board to have the notation removed. The decision to remove the conduct sanction notation shall rest in the discretion and judgment of a majority of a quorum of the Board; provided that:
  - 1. At the time the petition is received, at least 180 calendar days shall have elapsed since the conduct sanction notation was recorded; and,
  - 2. At the time the petition is received, the student shall have successfully completed the designated non-credit Academic Integrity Seminar, as administered by the Office of Student Conduct; or, for the person no longer enrolled at the University, an equivalent activity as determined by the Office of Student Conduct; and,
  - 3. The Office of Student Conduct certifies that to the best of its knowledge the student has not been found responsible for any other act of academic misconduct or similar disciplinary offense at the University of Nevada, Las Vegas or another institution.
- C. Prior to deciding a petition, the Academic Integrity Appeal Board will review the record of the case and consult with the Office of Student Conduct and responsible instructor or appropriate chair/director/supervisor. The decision of the Appeal Board shall not be subject to subsequent Appeal Board reconsideration for at least 180 calendar days, unless the Appeal Board specifies an earlier date on which the petition may be reconsidered. Subsequent Appeal Board determinations pertaining to the removal of the conduct sanction notation may be appealed to the Vice President for Student Life. If the Vice President removes the conduct sanction notation from the student's transcript, the Vice President shall provide a written rationale to the appeal board.
- D. No student with a student conduct notation on the student's transcript shall be permitted to represent the University in any

extracurricular activity, or run for or hold an executive office in any student organization which is allowed to use University facilities, or which receives University funds.

## **SEXUAL HARASSMENT POLICY AND COMPLAINT PROCEDURE**

Title IX of the Education Amendments of 1972 (20 U.S.C. § 1681) is an all-encompassing federal mandate prohibiting discrimination based on the gender of students and employees of educational institutions receiving federal financial assistance. Sex discrimination includes sexual harassment and sexual violence. Educational institutions that receive federal financial assistance are covered by Title IX. If only one of the institution's programs or activities receives federal funding, all of the programs within the institution must comply with Title IX regulations. In compliance with Title IX, the University of Nevada, Las Vegas prohibits discrimination in employment as well as in all programs and activities on the basis of sex.

When sexual harassment exists on the university campus, both the integrity and the learning environment are threatened. Students, community members, and employees should feel safe and comfortable here. The university environment is a place for learning and growing—sexual harassment interferes with that process.

UNLV strives to create and maintain a safe environment where everyone can enjoy freedom from sexual harassment and intimidation.

As a matter of course, the Board of Regents of the Nevada System of Higher Education and the University of Nevada, Las Vegas, have established policies regarding sexual harassment/discrimination and consensual relations within the Nevada System of Higher Education (NSHE) Sexual Harassment Policy and Complaint procedure. It is available on the Human Resources web page at <http://hr.unlv.edu>.

The consensual relations policy and other valuable information about the federal laws and policies governing sexual harassment are available on the web page for the Office of the Vice President for Diversity and Inclusion at <http://diversity.unlv.edu>.

## **ACCEPTABLE USE OF COMPUTING AND INFORMATION TECHNOLOGY RESOURCES POLICY** **STATEMENT OF PURPOSE**

**The purpose of this policy is to:**

- Ensure that use of computing and information technology resources is consistent with the principles and values of the university including academic freedom, privacy, and security.
- Ensure that computing and information technology resources are used for their intended purposes and meet compliance requirements.
- Ensure the confidentiality, integrity, availability, reliability and proper performance of computing and information technology resources.

## **ENTITIES AFFECTED BY THIS POLICY**

Entities affected by this policy include UNLV students and employees and anyone who accesses UNLV computing and/or information technology resources.

## **WHO SHOULD READ THIS POLICY**

UNLV students and employees and anyone who accesses UNLV computing and information technology resources should read this policy.

## **THE CONTEXT**

UNLV's computing and information technology resources are dedicated to the support of the university's mission and its core themes to

promote student learning and success, advance and support research scholarship, and creative activity, and foster inclusion and community engagement. While advancing the mission and core themes, UNLV respects, upholds, and endeavors to safeguard the principles of academic freedom, freedom of expression, and freedom of inquiry. UNLV's commitment to the principles of academic freedom and freedom of expression includes electronic information.

The use of computing and information technology resources in a manner consistent with the mission and ideals of the university and with the Nevada System of Higher Education (NSHE) Computing Resources Policy requires adherence to legal statutes, approved policies, and responsible behavior, including:

- using only assigned account(s) or account information
- respecting the privacy and rights of other computer users
- protecting the integrity of the physical environments in which information technology equipment resides
- complying with all pertinent software license and contractual agreements, and
- obeying all UNLV and NSHE regulations, state and federal laws.

UNLV seeks to create an atmosphere of privacy with respect to information and UNLV information technology resources. UNLV acknowledges its responsibilities to respect and advance free academic inquiry, free expression, reasonable expectations of privacy, due process, equal protection of the law, and legitimate claims of ownership of intellectual property. Such responsibilities are balanced with the acknowledgement that users should be aware that they should have no expectation of privacy in connection with the use of UNLV resources beyond the explicit provisions of university policy and applicable federal and state law (e.g., NRS Chapter 239, Public Records). UNLV is a public institution, and because the university must be able to respond to lawful requests and ensure the integrity and continuity of its operations, use of the university's information resources cannot be completely private.

Information on university computers and equipment may be subject to legal discovery and disclosed:

- In response to lawfully executed court ordered warrants or subpoenas
- As a result of the Nevada Public Records Act (i.e. public records request)
- In response to federal "Freedom of Information Act" requests
- In litigation involving the university and/or university employees
- In criminal investigations or investigations of student or employee misconduct
- In university investigations in accordance with NSHE or university policy.

When warranted, university staff are asked to assist in investigations and discovery and have direct responsibility for investigating and responding to some alleged offenses and incidents involving computing resources.

## POLICY

1. Each person may use only those computing and information technology resources for which he or she has authorization.

Examples of violations include, but are not limited to:

- a) asking another person for individual account passwords or attempting to obtain such passwords by any means
- b) using resources without authorization
- c) sharing university accounts with other persons without authorization

- d) accessing files, databases, data or processes without authorization
- e) using former system and access privileges without authorization after association with the university has ended.

2. Computing and information technology resources must be used in a manner that respects the privacy and rights of others.

Examples of violations include, but are not limited to:

- a) accessing, attempting to access, or copying someone else's electronic mail, data, programs, or other files without authorization
- b) divulging sensitive, personal information without a valid business or academic reason
- c) developing or using programs that may cause problems or disrupt services for other users
- d) misrepresenting another user's identity in any electronic communication (e.g., forging an e-mail address)
- e) using electronic resources for deceiving, harassing or stalking other individuals
- f) sending threats, "hoax" messages, chain letters, or phishing
- g) intercepting, monitoring, or retrieving any network communication without authorization.

3. The access to and integrity of computing and information technology resources must be protected.

Examples of violations include, but are not limited to:

- a) sharing passwords
- b) purposefully propagating computer malware such as computer viruses, worms or Trojan Horses, except under secure conditions for research or teaching purposes
- c) preventing others from accessing an authorized service
- d) degrading or attempting to degrade performance or deny service
- e) corrupting information
- f) altering or destroying information without authorization
- g) making university systems and resources available to those not affiliated with the university
- h) installing hacking or vulnerability tools in university systems without authorization
- i) circumventing or attempting to circumvent security mechanisms without authorization.

4. Applicable laws and university policies must be followed.

Examples of violations include, but are not limited to:

- a) uploading, downloading, distributing or possessing material deemed illegal under US and state laws, such as child pornography or classified information
- b) using university computing or network resources for advertising, partisan political activities or commercial purposes (see the exception for "UNLV Student elections, which are governed by CSUN policy" in Section II.1. "Partisan Political Activity" and the definition of political activity from the NAC 284.770, both referenced in the Related Documents section)
- c) making unauthorized copies of licensed software
- d) downloading, using or distributing illegally obtained media (e.g., software, music, movies) using the campus network, whether on a UNLV-issued computer or not
- e) accessing, storing or transmitting sensitive, personal information without a valid business or academic reason, or outside the parameters of limited personal use
- f) transmitting sensitive, personal information without using appropriate security protocols (NRS 603A).

5. Limited personal or non-university use of UNLV computing and information technology resources is allowable only if ALL of the following conditions are met:
- a) the use does not interfere with an employee's duties
  - b) the cost and value related to use is nominal
  - c) the use does not create the appearance of impropriety or UNLV endorsement
  - d) the use is otherwise consistent with this policy. Refer to the Office of Information Technology's Policies and Procedures web page at <http://oit.unlv.edu/about-oit/policies> for additional information, including how to request an exception to this policy.

## RELATED DOCUMENTS

Nevada System of Higher Education (NSHE) Computing Resources Policy. NSHE Title 4, Chapter 1, Section 22

<http://www.scs.nevada.edu/default/index.cfm/about-us/policies-guidelines/>

Guidelines for Scheduling University Facilities, Section II, A1 Partisan Political Activity <http://www.unlv.edu/visit/visitingcampus/reserve-space/guidelines#partisan>

Nevada Administrative Code, 284.770 – Political activities <http://www.leg.state.nv.us/nac/NAC-284.html#NAC284Sec770>

Nevada Revised Statutes, Chapter 603A – Security of Personal Information <http://www.leg.state.nv.us/NRS/NRS-603A.html>

Nevada Revised Statutes, Chapter 239, State of Nevada Public Records Law <http://www.leg.state.nv.us/nrs/nrs-239.html>

## CONTACTS

Refer to the Office of Information Technology's Policies and Procedures web page

at <http://oit.unlv.edu/about-oit/policies> for a list of individuals who can answer questions about the policy.

## DEFINITIONS

These definitions apply to these terms as they are used in this policy. Authorization – Permission to engage in activities otherwise deemed unacceptable only if required by existing policies, procedures, documented approval, assigned responsibility, or research or teaching purposes with adequate protections and in accordance with federal, state, and local laws.

Phishing – A scam by which an e-mail user is duped into revealing sensitive, personal or confidential information, which the scammer can use illicitly.

Sensitive, personal information – Any information about the individual maintained by the university, including the following:

(a) Education, financial transactions, medical history, and criminal or employment history; and, (b) Information that can be used to distinguish or trace the individual's identity, including name, social security number, date and place of birth, mother's maiden name, or biometric records.

Student – Currently admitted to UNLV – or – enrolled in at least one course at UNLV – or – has completed at least one course at UNLV within the previous six academic semesters (spring, summer, and fall).

Systems – Devices and applications accessed via the network.

## OIT COMPUTER LAB RULES

The UNLV computer labs are provided to support the academic computer needs of all currently enrolled UNLV students. Use of the labs for other purposes, commercial or otherwise, is prohibited. The

rules below are intended to maintain an environment in the labs where all students can work effectively.

- Students must have their UNLV identification card with them to use any UNLV computer lab.
- An account that allows access to the UNLV computer labs can be obtained by currently enrolled UNLV students. However, this account is to be used only by the student to whom it is given. Students may not share their account with anyone else.
- Lab patrons may not duplicate or use copyrighted materials without appropriate licenses and/or permission.
- All users must respect the privacy of others, and courteous behavior is expected in the facilities.
- Lab patrons are expected to maintain the decorum of a library at all times. No user may engage in behavior that will disturb or distract other students. The use of cell phones in the facilities is restricted. Phones should be taken outside when receiving a call, and ringers should be turned to vibrate when possible.
- Changing the current hardware and software configuration is prohibited. To make specific or unusual hardware or software requests, contact the Facilities Supervisor for the lab.
- Students may not use their own paper in the facilities, and must use the paper provided by the labs. The reprographics department can accommodate special paper and printing needs.
- The use of any tobacco product in computer facilities is prohibited.
- Users may not leave their personal belongings unattended or leave their workstation unattended without logging off for any extended period (i.e., more than 20 minutes). UNLV is not responsible for any items left unattended in the facilities.
- The repeated violation of lab rules may result in lab privileges being suspended.
- Users may not engage in behavior that creates a hostile atmosphere for other students wishing to use the lab. For further explanation of this rule see below:

## PROCEDURES REGARDING OFFENSIVE BEHAVIOR IN COMPUTER FACILITIES

- The computer facilities at UNLV are solely intended to support the academic computer needs of all students. Offensive behavior by some can create an environment that detracts from the ability of others to fully utilize the facilities. Loudness or otherwise creating a disturbance is behavior incompatible with the proper function of the facilities. People persisting in engaging in such impermissible behavior will be asked to leave.
- The computer facilities at UNLV exist to assist students in their academic work. This includes both formal assignments and informal supplemental learning and research. The use of the computer facilities for non-academic purposes is prohibited. While offensive behavior is impermissible, using material, for academic purposes, that others might find offensive is protected by both the First Amendment and the NSHE Computing Resources Policy. However, as UNLV is a university community, the spirit of civility requires that all computer facilities users show respect and consideration for the sensibilities of others.
- Students who are planning to work with material that others might find offensive or that may violate Title IX, including but not limited to vulgar language, explicit sexual material or material from hate groups -- should attempt, whenever possible, to use computers whose screens are least likely to be viewed by passersby. If a student is offended by material displayed prominently on a computer screen, he or she should inform the facilities staff who



will resolve the problem based on procedures established by the Computer Facilities Office. We all share the goal of keeping the UNLV computer facilities an environment where all students feel free to work. Your cooperation is greatly appreciated.

### **STUDENT EMAIL POLICY**

- Official email communications are intended to meet student, faculty, and staff academic and administrative needs within the campus community. Unless otherwise prohibited by law, the university and its faculty may communicate with students officially by email and will expect that such email messages will be received and read in a timely manner. Official UNLV email accounts are created for all admitted students. The addresses are all in the form of [name]@unlv.nevada.edu. These accounts must be activated by the students through the Office of Information Technology Help Desk or online.
- If a student wishes to have email redirected from their UNLV official email to another email address, they may do so but at their own risk. The university is not responsible for the handling of email by outside vendors or departmental/unit servers, none of which are considered official student email accounts. Having email redirected does not absolve a student from the responsibilities associated with official communication sent to his or her [name]@unlv.nevada.edu account. Students are expected to check their email on a frequent basis in order to stay current with UNLV related administrative and course communications and to recognize that certain communications may be time-critical. Students must ensure that there is sufficient space in their accounts to allow for delivery of official email communications. It is a violation of the UNLV Code of Student Conduct to use email to impersonate a university office, faculty/staff member, another student or any other person. Email users should exercise extreme caution in using email to communicate confidential or sensitive matters, and should not assume that email is private or secure. It is also important that users are careful to send messages only to the intended recipients. Faculty will determine how electronic forms of communication will be used in their classes, and will specify their requirements in the course syllabus. Such use by students and faculty shall be consistent with this policy. The Student Email Policy is available at: <http://www.unlv.edu/assets/provost/policies-forms/Student-email-policy.pdf>

### **DANGEROUS WEAPON POLICY**

It shall be the policy of the University of Nevada, Las Vegas that dangerous weapons will not be permitted on campus without the express written approval of the Director of Police Services. This policy shall apply to all persons on the campus of the University of Nevada, Las Vegas, except law-enforcement officers in the performance of their duties.

Dangerous weapons include, but are not limited to, all weapons named in Nevada Revised Statutes (NRS) 202.265. For purposes of this policy, facsimile weapons are also banned.

Any person found carrying such weapons upon their person may be prosecuted for carrying concealed weapons. If the weapons are found on the campus, they shall be seized by the University Police. If the weapon, by its nature, is not illegal, it shall be returned to its owner when the owner has made arrangements for its removal from campus.

### **ANIMAL POLICY**

The Nevada Revised Statutes empower the university to establish regulations for the health, safety, and welfare of all. In this interest,

the university will restrict the presence of animals on campus by enforcing the following two guidelines:\*

1. Any animal permitted on campus must be controlled by the owner or responsible person on a walking leash at all times except for Service Animals.
2. If the animal creates solid waste, it is the responsibility of the owner or person responsible to gather and properly dispose of it. Failure to comply with these guidelines subjects the responsible party to a fine, or to the university withdrawing permission for access through the campus.

\*Exception: Animals used for scientific purposes, in designated museums, service animals, or animals indigenous to an arboretum.

### **ALCOHOLIC BEVERAGES**

Neither the storage, possession, nor use of alcoholic beverages is allowed on the university campus or other university property unless prior approval has been obtained in writing from the university president. The only exception is in the case of a student over the age of 21 in his or her own residence hall room. Student-sponsored events at which alcoholic beverages will be served may be held in the Student Union, on the Student Union courtyard or on the north field by those recognized student organizations that accept the responsibilities outlined in the UNLV Alcohol Events Policy. Copies of the UNLV Alcohol Use Policy may be obtained from the Office of the Vice President for Student Life, FDH-330.

### **USE OF AUTOMOBILES AND PARKING**

University parking and traffic regulations, administered by university parking enforcement and by a student-faculty committee, govern all vehicles operated on the campus, and violators are subject to a fine. The regulations, adopted by the Board of Regents and filed with the secretary of state under the provisions of Nevada Revised Statute 396.435, are enforceable in the civil courts as well as through the internal processes of the university. Each student must complete an automobile registration card and obtain a parking permit during registration. Students should obtain a copy of the regulations booklet at that time. Stickers and information also can be obtained from the Department of Parking Enforcement office at times other than the registration period.

### **USE OF UNIVERSITY FACILITIES**

University facilities including campus grounds, are provided primarily for the support of the regular educational functions of the university and the activities necessary for the support of these functions. The university's functions take precedence over any other activities in the use of university facilities.

Freedom to speak and to hear will be maintained for students, faculty, and staff, and university policies and procedures will be used to provide a full and frank exchange of ideas. An effort will be made to allow a balanced program of speakers and ideas. An invitation to speak at the university does not imply that the university endorses the philosophy or ideas presented by the speaker.

### **FUNDRAISING**

No individual or organization may sell, solicit, or peddle on university property without permission nor may funds be solicited from alumni of the university without initial permission of the Vice President for University and Community Relations and final approval of the president.

Any fund-raising efforts by student organizations off campus must be approved by the Vice President for Student Life.

University facilities may not be used for the purpose of raising monies to aid projects not related to some authorized activity of the university or of university groups, and no efforts at conversion and solicitation by uninvited non-campus groups or individuals will be permitted on campus.

### **HANDBILLS AND POSTERS**

The university campus is maintained for the orderly operation of the school. Other uses are permitted only when they will not interfere with the normal functions of the university. The campus is governed by a university sign policy regarding distribution and posting of handbills and other printed materials. The Student Union has separate signage policies involving its spaces and functions.

### **SKATEBOARD POLICY**

The Nevada Revised Statutes empower the university to establish regulations for the health, safety, and welfare of all. In order for those who use sidewalks and walkways safely, the university bans the use of skateboards. The recreational use of skateboards is prohibited on the University of Nevada, Las Vegas campus.

Violation will result in the university withdrawing permission for access through the campus and/or disciplinary actions. If any damage has occurred, the parties responsible will make restitution. If the situation involves a minor, the parents will be notified of their financial responsibility. Such a violation may result in confiscation of the skateboard.

### **SMOKING POLICY**

The Nevada Revised Statutes place certain restrictions on the smoking of tobacco in state and public buildings. In the interest of human health and safety, the university prohibits the smoking of tobacco in university buildings. Smoking may be permitted only when so designated in areas identified by the facilities management department. Failure to comply with these guidelines subjects the responsible party to administrative action.

### **STUDENT USE OF HAZARDOUS MATERIALS**

Certain courses may require students to work with potentially hazardous materials in the laboratory, darkroom, or workshop as part of the course work. Instructors will provide instructions regarding the safe handling of all materials. Questions regarding the use of these materials should be directed to the specific academic department.

# Other Educational Opportunities

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## Early Studies Program

Nevada students wishing to enroll in university courses while still attending high school should refer to the Early Studies Program information under the Academic Success Center's section of this catalog or email [earlystudies@unlv.edu](mailto:earlystudies@unlv.edu).

## Honors College

Details on admission to the Honors College are outlined in the Honors College section of this catalog.

## International Programs

The Office of International Programs coordinates and administers a growing number of quality international education experiences for interested students. Academic credit earned abroad may be used toward degree completion. Scholarships and financial aid are available to qualified students. For more information about new study abroad opportunities, financial aid, or scholarships, contact International Programs, Classroom Building Complex (CBC) Building B, Room 325 (CBC B325), 702-895-3896, [international.programs@unlv.edu](mailto:international.programs@unlv.edu), <http://internationalprograms.unlv.edu>.

**Study Abroad:** UNLV students in a variety of academic disciplines may choose to study abroad for the summer, winter break, semester, or academic year on a UNLV-sponsored study abroad program. Currently, UNLV offers study programs in Australia, Brazil, Chile, China, Costa Rica, Cuba, Czech Republic, England, France, Germany, India, Ireland, Israel, Italy, Japan, Korea, Netherlands, New Zealand, Norway, Scotland, Singapore, South Africa, Spain, Sweden, Thailand, Vietnam and other locations.

**International Student Teaching:** Students in the College of Education can apply to participate in international student teaching in a variety of locations worldwide.

**Graduate Research:** Graduate students can apply for funding, including Fulbright, through the UNLV International Programs office for some international research purposes.

**Faculty Exchanges:** UNLV students are further exposed to international experiences on campus by means of faculty exchanges. Academic colleges have welcomed visiting professors from around the world, while UNLV tenure-track faculty have the option to apply to teach abroad. These professors add an extra dimension to the classes they teach and to the academic life on campus by means of a dynamic exchange of cross-cultural ideas.

**International Students:** For specific entrance requirements and regulations for international students, please consult the Admissions section of this catalog.

**Travel/Study Tours:** The Division of Educational Outreach sponsors short tours to various countries. In most cases, tour leaders are university professors who present lectures prior to departure on the culture, geography, and natural history of the areas being visited.

## National Student Exchange

UNLV is affiliated with the National Student Exchange (NSE) program, which offers qualified undergraduate students the opportunity to study for up to one year at another NSE member institution without paying out-of-state tuition. There are approximately 180 members of NSE throughout the United States, Puerto Rico, Guam, Virgin Islands, and Canada. Students must have a minimum GPA of 2.50. For more information, contact the NSE Coordinator at UNLV International Programs, CBC-B325, 702-895-3896, [international.programs@unlv.edu](mailto:international.programs@unlv.edu), <http://internationalprograms.unlv.edu>.

## The Office of Student-Athlete Academic Services

The Office of Student-Athlete Academic Services (SAAS) provides academic advising and support services for over 400 of UNLV's student-athletes. The office is committed to assisting student-athletes in earning a degree of their choice, while fulfilling UNLV, Mountain West Conference (MWC), and National Collegiate Athletic Association (NCAA) eligibility requirements. Further, every effort is made to instill in each individual those skills necessary to become an independent, responsible member of the UNLV student body. SAAS is committed to providing an environment that facilitates the academic success of every student-athlete. SAAS' goal is to prepare student-athletes to be fully accountable for their academic progress, resulting in graduation, personal, and professional development.

The academic services staff provides a variety of academic services, to both prospective student-athletes and currently enrolled UNLV student-athletes, per NCAA Bylaw 16.3.1. These services include, but are not limited to:

- Providing UNLV athletic department coaching staff preliminary evaluations of the eligibility and admission status of prospective student-athletes (recruits).
- Assisting student-athletes in course selection, planning, and scheduling for their specific UNLV degree program.
- Monitoring the academic progress of student-athletes toward degree program requirements.
- Informing student-athletes of the myriad NCAA, MWC, and UNLV requirements they must satisfy in order to remain eligible to participate in intercollegiate athletics at UNLV.
- Monitoring the eligibility status of student-athletes and providing direction for meeting eligibility requirements.
- Assisting the faculty athletics representative (FAR) in the eligibility certification of all student-athletes.
- Providing assistance and direction to student-athletes regarding UNLV's non-academic support services, which may help them adjust to and cope with the challenges of university life.
- Creating and administering programs that will support and enhance the academic performance and potential of student-athletes.
- Preparing student-athletes for graduation and the ensuing challenges, including employment and post-graduate education.

# Graduate and Professional Programs

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## Graduate College

Offering nearly 130 graduate degree programs, including 36 doctoral and professional degrees, UNLV provides wide-ranging and unique areas of study to more than 5,000 graduate and professional students. The Graduate College provides strong leadership to cultivate outstanding graduate education, extend educational opportunities to graduate students, ensure the consistent and fair application of policies, and provide support for graduate faculty and programs by cultivating an environment in which the highest quality graduate scholarship and research can thrive. Our guiding principles are: excellence, equity, diversity, opportunity, and impact.

The university's advanced degree programs are based on close working relationships between students and faculty. Graduate students, by definition, are pursuing advanced study to become specialists in their field. As such, graduate students apply for admission through the Graduate College and the particular academic department in which they choose to study. Once admitted, graduate students must follow their prescribed program of study under the mentorship of a faculty advisor in their field. Graduate education is rigorous and research-based; students learn the cutting edge knowledge and scholarship in their discipline(s), and doctoral students all engage in research or creative activity that creates new knowledge. For guidance on everything from the application process, to degree and graduation requirements, as well as policies that govern graduate education, prospective and current graduate students are encouraged to visit the UNLV Graduate College website and to carefully review the UNLV Graduate College Catalog. Graduate faculty and students are responsible for being aware of and observing the degree program requirements, policies, and regulations outlined in the Graduate Catalog. For additional information or guidance about UNLV's outstanding graduate programs, please contact the Graduate College.

## William S. Boyd School of Law

The William S. Boyd School of Law at the University of Nevada, Las Vegas, offers both a three-year, full-time day program and four-year, part-time programs (day and evening) for the Juris Doctor degree. Entering classes have approximately 140 students.

The mission of the Boyd School of Law is to prepare students for the competent and ethical practice of law. At the same time, the Boyd School of Law recognizes that the skills and knowledge acquired in the law school may be transferred easily to other fields of endeavor and that many students seek legal training for the value it may have in pursuits other than the practice of law. The Boyd School of Law is dedicated to preserving, transmitting, and advancing the current state of legal knowledge, to developing programs that meet the changing needs of society; and to encouraging its graduates to apply the knowledge they gain for their own personal development and for the good of society.

**Curriculum:** The Boyd School of Law maintains a curriculum that responds to the needs of the students as well as the needs

of the profession and adopts for its curriculum the best aspects of traditional and skills-oriented legal education. The core curriculum is designed to teach students to "think like lawyers," to enable students to comprehend, analyze, and synthesize complex material, and to effectively communicate solutions. Throughout the curriculum, the Boyd School of Law emphasizes writing, professionalism, and community service. Students must complete 89 hours of course work in the J.D. program.

**Selection of Applicants:** To be eligible to apply for admission to the Boyd School of Law, applicants must have an undergraduate degree from an accredited four-year college or university and must have taken the Law School Admission Test (LSAT). The Boyd School of Law seeks to enroll an accomplished and diverse group of women and men who will contribute to the enrichment of the educational program of the school and to the community and the profession after graduation. The law school seeks students who have demonstrated significant accomplishments in their lives, for example, by achieving distinguished academic records as undergraduate or graduate students, by engaging successfully in important and challenging careers, by providing significant service to their communities, or by meeting challenges associated with their race, ethnicity, gender, economic status or disability. The law school seeks to have a student body that is both academically well-qualified and diverse. The presence in the school of students who have diverse backgrounds, attitudes, and interests contributes to the breadth and quality of the classroom and non-classroom dialogue, which is a critical element of legal education.

**Accreditation:** The William S. Boyd School of Law at the University of Nevada, Las Vegas is fully accredited by the American Bar Association and is a member of the Association of American Law Schools.

**More Information:** For further information about the William S. Boyd School of Law, please call 702-895-2440 or visit the law school's website at [www.law.unlv.edu](http://www.law.unlv.edu).

**Pre-law Students:** Law schools neither prescribe nor encourage any specific undergraduate major. A broad general education with emphasis on courses that develop clear and systematic thinking is better preparation for the study of law than is specialized study in subjects closely related to law. Most important for prospective law students is that they develop a command of the English language and the ability to communicate ideas clearly, logically, and critically.

Students are encouraged to discuss pre-law interests with Lea Sexton, Director of the Wilson Advising Center, at 702-895-1998.

Phi Alpha Delta, a pre-law fraternity associated with the pre-law association, is also very active in helping pre-law students. For information on joining, contact the Consolidated Students (CSUN) office.



## Pre-Professional Students

Many students plan to seek admission to health-related professional schools that provide advanced degrees in specialties such as medicine, osteopathic medicine, veterinary medicine, dentistry, optometry, pharmacy, podiatry and chiropractic. UNLV provides a complete array of courses that are required by professional schools for admittance. Students who plan to apply to a professional school should be aware of the existence of the UNLV Pre-Professional Interview Committee. This committee consists of faculty from a variety of disciplines, including non-science areas, and health care professionals from the community. The committee interviews students prior to their applications to professional schools and writes letters of recommendation. For more information about pre-professional preparation, contact the Chair of the UNLV Pre-Professional Interview Committee, Joseph Nika, at 702-895-3170.

## School of Dental Medicine

The UNLV School of Dental Medicine, which accepted its Inaugural Class in August of 2002, is designed to serve our local community and the State of Nevada in oral health care, health services, research and scholarly activities. Education of dental students is accomplished through a competency-based curriculum with a special emphasis on biomedical sciences and an innovative, vertically integrated team approach for clinical instruction and delivery of patient care. The School of Dental Medicine has a diverse and distinguished world class faculty to facilitate the program.

The competency-based education program has at its core a student and patient-centered environment designed to maximize learning and patient care delivery. Student doctors are exposed to in-depth studies of biological and clinical sciences as well as biomedical and bio-ethical disciplines. They encounter a broad spectrum of clinical experiences to prepare them for entry into the profession. These experiences begin in year one of the curriculum, and clinical responsibilities expand in scope and depth throughout the four years. They also have exposure to business and financial management designed to meet the challenges of dental practice. Furthermore, they are introduced to principles of research, have an opportunity to conduct independent research and are encouraged to pursue scholarly activities with the possibility of creating a career in academic dentistry.

Training occurs in state-of-the-art facilities designed to achieve the goals of the dental academic program. Today's dental professional needs a learning environment that offers interaction with other medical professionals and facilitates diagnosis and treatment to improve the patient's overall health. These facilities are also home to the Advanced Dental Education Programs of Orthodontics, Pediatric Dentistry and General Practice. Students have access to the latest technology and partner with other health care professionals in diagnosing disease and treating patients. By the time of graduation, students are competent and confident to begin a rewarding career as a provider of comprehensive oral health care.

Whether the goal is to become a dental educator or a dental professional engaging in the private practice of dentistry or to further professional development in one of the dental specialty areas, the faculty and staff at UNLV's School of Dental Medicine are poised to be partners in building a successful career.

## Admission Requirements and Selection of Applicants

In agreement with guidelines established by the Commission on Dental Accreditation and the American Dental Education Association, admissions policies at the UNLV School of Dental Medicine are based on specific objectives, criteria and procedures designed to identify students with high standards of integrity, motivation, and resourcefulness and with the basic knowledge and attitude required for completing the integrated curriculum. Acceptance to the UNLV School of Dental Medicine is awarded on a competitive basis to individuals who have completed the interview process at the institution. Invitations for interview are extended to applicants deemed appropriate and eligible for consideration. Preference is given to Nevada residents.

## Prerequisite Courses:

- One year of general biology with lab
- One year of general chemistry with lab
- One year of organic chemistry with lab
- One year of general physics with lab
- One semester of biochemistry or equivalent
- One year of English
- One semester of human anatomy or one year of anatomy and physiology

It is highly recommended that the applicant complete these prerequisite courses prior to filing an application or taking the Dental Admission Test. It is required that all above prerequisite courses and units be completed by June of the year of intended enrollment.

**Minimum College Units:** A minimum of 90 semester units, or the equivalent completed or in progress, at the time of application, in an accredited college or university in the United States or Canada is required. A minimum of 30 semester units must be completed at a four-year institution. Selection factors include: grade point average, Dental Admission Test, letters of evaluation, interview, commitment to dentistry, dental/work experience, community service, and interpersonal communication skills.

For more information about the School of Dental Medicine, please call (702)-774-2520 or visit <http://dentalschool.unlv.edu>.

## University of Nevada School of Medicine (UNSOM)

The School of Medicine was established in 1969 as a two-year basic science program. It converted to a full four-year M.D. degree program in 1977 and graduated its first class of physicians trained in Nevada in 1980.

The goal of the school is to graduate students who are knowledgeable, caring, skillful, responsible physicians capable of entering any specialty training program and delivering high-quality health care to the individual, the family, and the community.

Unique features of the UNSOM program include small class size, hands-on clinical experience beginning in the first weeks of medical school, access to top level researchers, and a culture of honor and professionalism.

The School of Medicine is fully accredited by the Liaison Committee on Medical Education.

**Curriculum:** The first two years of instruction provide opportunities to learn the concepts, skills, and professional values essential to the practice of medicine, including the basic sciences such as anatomy, behavioral sciences, biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology; the foundation skills in

patient care necessary for entering the clinical years; and courses in clinical problem solving.

The third and fourth years, the clinical years, are spent in affiliated hospitals, clinics, and ambulatory care centers throughout the state. Students are required to complete the following clinical rotations under the close supervision of our faculty: family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery. Students will also take "Clinical Reasoning in Medicine" which is a case-based, interdisciplinary, semester-long course.

Fourth-year medical students may choose from a number of elective courses both in Nevada and out-of-state. Students are required to spend four weeks with a rural Nevada physician in order to become acquainted with the practice of medicine in a small community.

Students apply to postgraduate residency programs through the National Resident Matching Program and are accepted to many of the top programs in the nation.

**Student Profile:** Students attending the University of Nevada School of Medicine have completed four years of college and, in some cases, have earned graduate degrees. Prior to entering the School of Medicine, students have demonstrated strong academic ability at the undergraduate level and an aptitude for medical science as reflected by their MCAT scores. Some have completed military service or have entered medical school from another field or profession. The average age is 23, and many students are married and have families. Almost all students have extensive health care experience, often as volunteers. The school encourages applicants from all socio-economic, racial, religious and educational backgrounds, and genders. Applications from members of minority groups who meet residency criteria are especially encouraged.

**Faculty:** The faculty of the University of Nevada School of Medicine is dedicated to the training of caring and competent physicians who will be responsive to their patients and local communities. In addition to their teaching duties, distinguished faculty members also make significant contributions to the advancement of medical science. Researchers at the school have achieved major breakthroughs in cancer biology, in the epidemiology of new or re-emerging infectious diseases, and the discovery and function of ion channels in both heart and gastrointestinal smooth muscle. Ongoing research projects may lead to better diagnosis and treatment of diseases of the digestive tract, AIDS, cancer, and cardiovascular diseases as well as a better understanding of the effects of stress and nutrition on the body. The school operates a kidney and pancreas transplant program and a trauma center at University Medical Center in Las Vegas.

**Selection Factors:** The School of Medicine seeks well-rounded, academically prepared individuals who have completed a minimum of three years of college. A bachelor's degree is preferred. Candidates are required to take the Medical College Admissions Test (MCAT) no later than the fall prior to the year of anticipated entrance. Applicants are evaluated on the basis of:

- Nevada residency
- Academic performance
- Personal interviews
- Nature and depth of scholarly activities

- Extracurricular community service or related health care activities
- Academic letters of reference

Applicants are encouraged to have a broad educational background and to enroll in an in-depth curriculum that will lead to a discipline-oriented major, e.g., biology, English, or psychology. However, no specific major is favored over any other. The School of Medicine does require specific courses as a requisite for admissions:

General chemistry .....	8 credits
Organic chemistry .....	8 credits
Biology .....	12 credits
(Three credits must be upper-division)	
Physics.....	8 credits
Behavioral sciences.....	6 credits

(Three credits must be upper division and deal with the psychological stages of the life cycle, such as human growth and development, adolescence, aging, human sexuality, abnormal psychology, family dynamics or medically oriented sociology.)

Supplementary courses strongly recommended as useful to the study or practice of medicine but not required for admission include: microbiology, genetics, biochemistry, statistics, and mathematics through introductory calculus.

**Residence Requirements:** First priority for acceptance is given to residents of Nevada. Students are considered Nevada residents if:

1. Applicants have resided in Nevada for a minimum of 21 months prior to matriculation.
2. Applicants' parents are current Nevada residents and the applicant is under 27 years of age.

Non-U.S. citizens must have permanent resident visas and be Nevada residents to be considered. A limited number of out-of-state applications with strong residential ties to Nevada are considered each year. Applicants from Western states without medical schools - Alaska, Idaho, Montana, and Wyoming - are also considered. The School of Medicine is a member of the Western Interstate Commission for Higher Education (WICHE).

More Information: Students or prospective students with questions regarding the School of Medicine's programs should contact:

Dean's Office, Pre-professional Committee  
College of Sciences, University of Nevada, Las Vegas  
Las Vegas, NV 89154-4023

Office for Admissions and Student Affairs  
Pennington Medical Education Building/MS 0357  
University of Nevada School of Medicine  
Reno, NV 89557-0357  
775-784-6063

# Academic Success Center

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**(702) 895-3177**

**<http://asc@unlv.edu>**

**<http://www.unlv.edu/asc>**

## ***Purpose and Focus***

The Academic Success Center (ASC) is a resource and service hub that partners with the UNLV campus community to welcome, guide, and support students through their academic careers. The ASC offers a wide variety of programs that include academic advising for Exploring Majors and non-degree seeking students, campus-wide tutoring and supplemental instruction, academic success coaching, math bridge programs, first- and second-year seminars for Exploring Majors, student-athlete services, scholarship programs, a learning specialist program, and much more.

## **Academic Success Center Service Areas**

### **Academic Advisement (Exploring Majors)**

Exploring Majors students are required to meet with an Academic Advisor in the ASC at least once a semester, to discuss their goals, interests, and major/career plans. The Academic Advising Unit also has tools designed to help with the exploration of various majors, minors, careers, and continuing educational pursuits. The planning process for Exploring Majors begins with new students and continues each time a student meets with an Academic Advisor. Upon earning 30 credits, students are required to schedule an appointment to discuss future plans in more detail. Upon completion of 48 cumulative credits, students are required to change from the exploring category to a specific major. Students can also decide to change their majors at any time as long as they meet the entrance requirements for the major selected.

### **Change of Major Policies**

Students can change their major to the Academic Success Center as an Exploring Major if they are: 1) unsure of a major/career path, 2) are in a Good Academic Standing with a minimum UNLV or transfer GPA of 2.00, and 3) have earned fewer than 48 cumulative credits.

### **Probation/Suspension**

A student is subject to a one-semester college/center suspension after being on academic probation (less than 2.00 cumulative UNLV GPA) for two consecutive semesters. Students wishing to appeal the suspension may submit a Reinstatement after College Suspension form to the Academic Success Center Academic Standards Committee for review. Also, a transfer student entering a probation contract who fails to fulfill that contract is subject to college/center suspension until such time as that student raises his or her GPA to 2.00 or higher. Students will not be considered for reinstatement to the Academic Success Center after three college/center and/or university suspensions.

### **Undergraduate Non-Degree Seeking Students**

Undergraduate non-degree seeking students can take a maximum of eight credits per semester. No more than 24 credits earned as a non-degree seeking student may be applied toward a bachelor's degree. Credit overload petitions will be considered only for students

who possess at least a 3.00 GPA from the most recently attended institution and/or a combination of all institutions attended. Students who have earned 24 credits or are close to earning this number of credits, as a non-degree seeking student are highly encouraged to apply for admission to UNLV as a degree-seeking student.

### **Tutoring**

The ASC provides a campus-wide tutoring program for a variety of UNLV courses. Tutoring is available in the Lied Library, second floor, and Thomas Beam Engineering (TBE 207L) complex. Subjects typically tutored every semester include, but are not limited to, math, biology, chemistry, physics, economics, accounting, psychology, and foreign languages. Additional subjects are added each semester based on tutoring requests and availability. Tutoring is provided throughout the school year, including the summer. Additional information about tutoring and the schedule is available at [www.unlv.edu/asc](http://www.unlv.edu/asc) or on Facebook at UNLV Tutoring. The mission of the program is to enhance a student's overall academic experience at UNLV by providing a respectful, educational environment to reinforce classroom learning. Students who have excelled in their chosen subject(s) and are highly recommended by a UNLV faculty member, are hired throughout the school year as peer tutors.

### **Supplemental Instruction**

Supplemental Instruction (SI) is a program where SI leaders attend a specific course and then conduct group sessions after class twice a week, usually lasting about an hour. This program provides students the opportunity to immediately review material covered in class, work through difficult concepts, and form study groups that can continue to work together throughout the semester and in future courses. Students are provided the opportunity under the guidance of the SI leader to reinforce class concepts through a hands on approach while working with peers. SI is typically offered for economics, biology, chemistry, computer engineering, math, and business courses. For a current listing of courses and session times, email [SI@unlv.edu](mailto:SI@unlv.edu). SI leaders conducting the session have successfully completed the course with a B or better and are highly recommended by a UNLV faculty member.

### **Expect Success Bridge Program**

The Expect Success - Math Bridge Program is a free opportunity for UNLV freshmen to reinforce their math skills utilizing an online platform combined with live tutorial support. Freshmen students who placed into Math 95 or Math 96 based on their SAT/ACT math scores are encouraged to participate in this intense math refresher program. The Expect Success utilizes ALEKS, an adaptive online learning program that provides students with an individualized plan to refresh their mathematical knowledge in preparation for credit-bearing math courses. Live tutorial assistance is provided in the classroom while students are working on ALEKS. Tutors are available to answer questions regarding the content online and supplement the program with additional information and practice for the students. At the end of the program, students will take the ALEKS Mathematics Placement Assessment provided in the online program to reassess their math placement. Completing the program provides students

with a great, free opportunity to refresh their math skills in order to potentially retest into a credit-bearing math course; the program does not grant college credit. The program costs \$25.00 for the purchase of ALEKS. Students must complete the program in order to avoid incurring additional costs for the program.

### **Academic Success Coaching Program**

Academic Success Coaches help students develop strategies for successfully navigating college academically, socially, and personally. Coaches individualize their approach with every student by engaging in the processes of reflection, goal-setting, and planning. The Academic Success Coaching Program empowers students by helping them:

- Objectively assess obstacles to academic success
- Establish attainable educational goals
- Create and maintain positive daily routines
- Improve time management and organizational skills
- Develop a positive mindset
- Study more effectively and efficiently
- Engage in courses through participation and effective note taking
- Prepare for exams
- Build rapport with professors
- Utilize campus resources

### **First-Year Seminar for Exploring Majors (COLA 100E)**

The ASC, in partnership with the College of Liberal Arts, provides a 3-credit first-year seminar designed to help students build a strong foundation for academic success. COLA 100E: First-Year Seminar for Exploring Majors addresses topics regarding learning strategies, critical thinking, citizenship, ethics, multiculturalism, writing, and other topics relating to student development. Major and career exploration is also intertwined throughout the course content, as students are exposed to a blend of information and experiences to help them explore potential major and career choices.

### **Second-Year Seminar for Exploring Majors (ENG 231E)**

The ASC partners with World Literature to offer ENG 231E, which is a second-year seminar (SYS) designed for Exploring Majors with the theme, "Finding Your Path." It is a three-credit course that explores issues of identity and vocation through the reading of original literature from antiquity to the present day. ENG 231E reinforces the University Undergraduate Learning Outcomes (UULOs) introduced in the first-year seminar, COLA 100E.

### **Scholarships**

The ASC annually offers the "ASC Dean's Award" for qualifying Exploring Majors. In order to be eligible for the scholarship, Exploring Majors must first apply through the Center's Advising Unit. Applications are collected in the spring and successful awardees are notified in the summer for fall and spring semesters.

The ASC also offers the Hixson-Lied Success Scholars Program during the Fall and Spring semesters for selected incoming and current undergraduate students. The scholarship is geared toward students who have overcome significant challenges (academic, economic, etc.) to find success in-and-out of the classroom. For more information, visit [www.unlv.edu/asc](http://www.unlv.edu/asc) or email [hlscholars@unlv.edu](mailto:hlscholars@unlv.edu).

### **Student-Athlete Academic Services**

The Office of Student-Athlete Academic Services (SAAS) provides academic advising and support services for over 400 of UNLV's student-athletes. The office is committed to assisting student-athletes in earning a degree of their choice, while fulfilling UNLV, Mountain West Conference (MWC), and National Collegiate Athletic Association (NCAA) eligibility requirements. Further, every effort is made to instill in each individual those skills necessary to become an independent, responsible member of the UNLV student body. SAAS is committed to providing an environment that facilitates the academic success of every student-athlete. SAAS' goal is to prepare student-athletes to be fully accountable for their academic progress, resulting in graduation and personal/professional development.

The academic services staff provides a variety of academic services, to both prospective student-athletes and currently enrolled UNLV student-athletes, per NCAA Bylaw 16.3.1. These services include, but are not limited to:

- Providing UNLV athletic department coaching staff preliminary evaluations of the eligibility and admission status of prospective student-athletes (recruits)
- Assisting student-athletes in course selection, planning, and scheduling for their specific UNLV degree program
- Monitoring the academic progress of student-athletes toward degree program requirements.
- Informing student-athletes of the myriad NCAA, MWC, and UNLV requirements they must satisfy in order to remain eligible to participate in intercollegiate athletics at UNLV
- Monitoring the eligibility status of student-athletes and providing direction for meeting eligibility requirements
- Assisting the faculty athletics representative (FAR) in the eligibility certification of all student-athletes
- Providing assistance and direction to student-athletes regarding UNLV's non-academic support services that may help them adjust to and cope with the challenges of university life
- Creating and administering programs that will support and enhance the academic performance and potential of student-athletes
- Preparing student-athletes for graduation and the ensuing challenges, including employment and post-graduate education

### **Learning Specialist Program**

In partnership with the Disability Resource Center and a range of campus services, the Learning Specialist Program provides services to undergraduate UNLV students who face challenges that pose barriers to their academic success. These challenges may be linked to learning disabilities or areas identified through learning assessments. For more information, call (702)895-0661.

### **Early Studies Program**

The ASC hosts the Early Studies Program, which provides highly-motivated high school students an opportunity to get a head start on their college education by enrolling in UNLV courses before high school graduation. Early Studies students have the opportunity to earn dual credit (university and high school credit) with the approval of their high school counselor. In addition, Early Studies Students receive full access to ASC resources, such as tutoring, advising and academic success coaching. The Early Studies Program attracts some of the best and brightest students in Clark County and creates a more streamlined bridge from their high school to UNLV.



# Lee Business School

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## ***Purpose and Focus***

The Lee Business School is one of a select number of professional schools of business accredited by the AACSB International — The Association to Advance Collegiate Schools of Business. The college offers academic programs designed to prepare students to be successful in the global marketplace and to meet the challenges of a constantly changing international environment. Graduates are also well-prepared to undertake advanced studies in business, economics, public administration, or law through the combination of liberal arts and professional business education. Both the theory and the practice of business are emphasized throughout the curriculum. Graduates of the Lee Business School acquire basic skills in accounting, economics, and statistics as well as specific skills in the areas of people management, asset and information technology management, and product and service management. The Lee Business School curriculum is structured so students not only acquire an understanding of business operations but also are provided the opportunity for in-depth study in an area of concentration. Integrated throughout the curricula are topics reflecting the unique sectors of Nevada's economy such as tourism, gaming, and nonprofit and governmental agencies. The development of intellectual and professional competence is stressed in all areas of study.

## ***Accreditation***

Northwest Commission on Colleges and Universities  
AACSB International — The Association to Advance Collegiate Schools of Business

## ***Departments, Majors and Undergraduate Degrees***

### **Department of Accounting**

Accounting — Bachelor of Science in Business Administration

### **Department of Economics**

Economics — Bachelor of Arts

Economics — Bachelor of Science in Business Administration  
Real Estate and Urban Economics – Bachelor of Science in Business Administration

### **Department of Finance**

Finance – Bachelor of Science in Business Administration

### **Department of Management, Entrepreneurship and Technology**

Entrepreneurship — Bachelor of Science in Business Administration

Management Information Systems - Bachelor of Science in Business Administration

Management — Bachelor of Science in Business Administration

### **Department of Marketing and International Business**

International Business — Bachelor of Science in Business Administration

Marketing — Bachelor of Science in Business Administration

## ***Minors***

### **Department of Accounting**

Accounting  
Auditing

### **Lee Business School**

Business Administration (for non-business majors only)

Business Analytics

Global Entrepreneurship Experience Minor

### **Department of Economics**

Economics

Real Estate

### **Department of Finance**

Finance

Risk Management and Insurance

### **Department of Management, Entrepreneurship and Technology**

Entrepreneurship

Information Management

Management

### **Department of Marketing and International Business**

International Business

Marketing

## ***Graduate Degree Programs***

Accounting — Master of Science

Business Administration — Master of Business Administration (MBA)

MBA dual degrees:

- Management Information Systems and Master of Business Administration (MBA/MS MIS)
- Hotel Administration and Master of Business Administration (MBA/MS HOA)
- Law and Master of Business Administration (MBA/JD)
- Dental Medicine and Master of Business Administration (MBA/DMD)

Business Administration — Master of Business Administration-Executive (EMBA)

Economics — Master of Arts

Management Information Systems — Master of Science

Management Information Systems dual degree with Hotel Administration (MS MIS/MS HOA)

## ***Catalog Clarifications and Corrections***

The Lee Business School periodically posts catalog clarifications on the Undergraduate Advising website. Please go to [www.unlv.edu/business/advising/undergrad](http://www.unlv.edu/business/advising/undergrad) for more information. The Lee Business School periodically e-mails updates to students via their official UNLV e-mail accounts.

## ***Student Responsibility***

Academic success requires that students be diligent and proactive in their education. The ultimate responsibility for that success rests with the student. The Lee Business School expects students to be prepared to participate actively and knowledgeably in the advising process. Therefore, we expect students to understand their degree requirements; meet prerequisites; seek clarification as needed; and behave responsibly, maturely, courteously, and in accordance with the Student Code of Conduct. All Lee Business School students must activate and monitor their UNLV e-mail accounts.

## Admission to the Lee Business School

Upon admission to UNLV, all eligible (see below) business students are classified as pre-major students. While classified as such, students must complete the pre-major courses required by the Lee Business School as well as general-education (also called university core) courses. Students may enroll in upper-division courses (300- or 400-level) only after satisfying the specific requirements listed below and after having been admitted to upper-division status.

*Freshman admits:* Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and ENG 101 (or ENG 113 or ENG 101E or ENG 113E) - Composition I or higher.

*Transfer students:* Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and ENG 101 (or ENG 113E or ENG 101E or ENG 113E) - Composition I or higher. In addition, transfer students must have a minimum 2.75 cumulative GPA from all schools as calculated by UNLV Office of Admissions.

*UNLV students who change major to pre-major (BUSPRE):* Lee Business School pre-major (BUSPRE) admissions standards: All students must place into MATH 124 - College Algebra or higher and ENG 101 (or ENG 113 or ENG 101E or ENG 113E) - Composition I or higher. UNLV students changing majors must have a minimum 2.50 UNLV GPA.

*Pre-major designation and requirements:* While classified as a business pre-major, students must satisfactorily complete the requirements for admission to a business major before enrolling in upper-division (300- and 400- level) business courses.

*For the BSBA degree program, those requirements are:* (1) 55 credit hours completed or in progress; (2) completion of the eight pre-major courses with grades of C (2.00) or better; (3) computer proficiency; and (4) a minimum 2.75\* UNLV GPA. For more information about satisfying computer proficiency, contact Undergraduate Advising.

*For the BA in Economics, those requirements are:* (1) 55 credit hours completed or in progress, (2) completion of all three pre-major courses with grades of C or better (ECON 102, ECON 103 and ECON 261); and (3) a minimum 2.75\* UNLV GPA.

*Pre-major courses for the BSBA degree program:* ACC 201, ACC 202, COM 101, ECON 102, ECON 103, ECON 261, ENG 102, and select one from MATH 127, MATH 128, MATH 132, MATH 176, MATH 181 or MATH 182. (Minimum grade of C [2.0] or better required in each course.)

*Pre-major courses for the BA in Economics:* ECON 102, ECON 103 and ECON 261. (Minimum grade of C (2.00) or better required in each course.)

*Application to the major (upper division):* Students who have met the pre-major requirements may apply to the major by obtaining an application online ([www.unlv.edu/business/advising/undergrad/](http://www.unlv.edu/business/advising/undergrad/)) or from the Undergraduate Advising office. Notification of the admission decision will be e-mailed to the Rebelmail address. A business student

who has already been admitted to upper-division business status and wants to change from one business major to another business major must have a minimum 2.0 UNLV GPA to apply for the major change.

\*It is possible that the minimum GPA for admission to the Lee Business School and/or to the major may change.

**Transfer Policies:** Upon admission to UNLV, the Office of Admissions reviews transfer transcripts to determine which courses transfer to UNLV for university credit. The Lee Business School then evaluates the accepted courses to determine whether and how they may apply to a business degree. To determine the degree applicability of a course, the student may be asked to submit an official course description, syllabus, and/or other materials. In addition to the university's transfer requirements, the Lee Business School has the following conditions for transfer credit.

1. Transfer credits toward upper-division business requirements and toward Microsoft Office proficiency (or equivalent) or IS 101 (or equivalent) are considered only for those courses completed within the seven-year period prior to admission to the business program.
2. Only transfer business courses completed with a grade of C (2.00) or better may be considered for degree applicability. The Lee Business School does not accept satisfactory/fail credit for business courses except for the approved CLEP credits and advanced placement credits.
3. Regardless of the number of transfer credits awarded, transfer students must complete at least 50 percent of the required business courses or credits (including pre-major, upper-division business courses and major courses) in residence at UNLV. In addition, at least 50 percent of the major courses must be completed in residence at UNLV. Those students pursuing a business minor must complete 50 percent of the required courses in residence at UNLV.
4. Only those upper-division business courses taken at an AACSB-accredited school may be considered for upper-division business requirements at UNLV.
5. The Lee Business School does not accept DANTES credit for upper-division business requirements.
6. The Lee Business School does not grant transfer credit for the business capstone courses (BUS 496/497/498), therefore, this course must be taken at UNLV.
7. In accordance with the policies of accrediting authorities, the Lee Business School does not accept lower-division courses for upper-division business requirements.

## General Academic Policies

### Minimum C (2.0) Grade Requirement

Lee Business School requires a minimum C (2.00) grade in each business course required for a business degree or minor. Students must earn a minimum C (2.00) grade in the prerequisite to be able to take subsequent courses. Additionally, students must earn a minimum C (2.0) grade in each non-business course that is required as a prerequisite for a business course.

**Maximum Number of Attempts:** The maximum number of attempts for each business course is three, regardless of the institution at which the courses are taken. Failure to earn the minimum required grade within three attempts may make the student

ineligible for a particular business major/minor or for any business degree in the Lee Business School.

For each upper-division accounting (ACC) course, the maximum number of three attempts includes earned grades, withdrawals and audits.

**Advanced Placement, CLEP Credits and Satisfactory/Fail Grades:** The Lee Business School accepts credit for Advanced Placement and CLEP only for those courses accepted by the university. For more information about Advanced Placement and CLEP, read the Admissions section of this catalog.

The Lee Business School does not accept satisfactory/fail credit for business courses except for the approved Advanced Placement and CLEP credits.

**Probation and Suspension:** Lee Business School adheres to the policies on probation and suspension. Please refer to the appropriate sections of the Undergraduate Catalog for details on these policies. Students on probation or students returning to UNLV after suspension must meet with an advisor for academic planning.

**Business Capstone Course:** Each business student pursuing the BSBA degree must select one of the Lee Business School capstone courses, selecting from BUS 496, BUS 497, or BUS 498. The student's major may dictate which capstone course the student must take. Because the Lee Business School does not grant transfer credit for the business capstone course this requirement must be satisfied at UNLV. Only degree-seeking students admitted to the Lee Business School BSBA degree program may be eligible for the capstone course. Check the Undergraduate course descriptions for prerequisites for the capstone courses. Although the college offers summer courses, the college cannot guarantee that the specific courses a student needs will be offered. Please contact Undergraduate Advising for details.

**Dual Major, Dual Degree and Minor within Lee Business School:** Students may pursue more than one business major, degree, or minor. To do this, students must successfully complete all the courses required for each business major, degree, and/or minor. Additionally, a minimum of 12 credits must be unique to the additional business majors, degrees, and/or minors. A course is considered unique if it is not satisfying a requirement for another business major, degree, and/or minor.

The GPA requirement for admission to additional (second, third, etc.) business majors and degrees is the minimum requirement at the time of the admission to these additional majors, regardless of when the student matriculated to UNLV or to the Lee Business School.

Students pursuing a dual degree or dual major must complete at least 50 percent of the required business courses or credits (including pre-major, upper-division business courses, and major courses) in residence at UNLV. In addition, at least 50 percent of the major courses must be completed in residence at UNLV. These policies apply regardless of the number of transfer credits awarded.

Students pursuing a minor must complete at least 50 percent of the minor courses in residence at UNLV, regardless of the number of transfer credits awarded.

For more information about the requirements for dual major, dual degree or minor, please read the information in the Academic Policies section of the Undergraduate Catalog.

**Graduation Requirements:** In addition to the degree requirements, students pursuing a degree from the Lee Business School must earn at least 120 degree-applicable credits, successfully complete the required courses, and meet the grade and GPA requirements.

To earn a Bachelor of Science in Business Administration degree students must have at least a 2.00 GPA\* in each of the following: the major, the business core (includes both the pre-major and the upper-division business courses), and UNLV overall. Please refer to the individual departmental sections of the Undergraduate Catalog for academic and graduation requirements specific to the various majors.

Students pursuing a Bachelor of Arts in economics must have at least a 2.00 GPA\* in both the major and UNLV overall. Please refer to the individual departmental section of the Undergraduate Catalog for academic and graduation requirements specific to this degree program.

Students must apply for graduation through the Office of the Registrar at least two semesters prior to graduation. (See the Graduation Policies section of the catalog for more information.)

\*The graduation GPAs may change at the dean's discretion.

## Scholarships

The Lee Business School has scholarships available for students. To be considered, students should apply at [www.unlv.edu/finaid](http://www.unlv.edu/finaid). Some of the college's academic departments may require additional information. For more information, please contact the specific departments.

## Global Entrepreneurship Experience

The Global Entrepreneurship Experience is a signature program using experiential learning to link the classroom with practical application and engage students in critical thinking, problem solving and decision making at the Lee Business School. The experience is cohort-based, admitting 20 high school seniors for the curricula that begins in the fall of their freshman year and concludes upon their graduation four years later. It features a hands-on entrepreneurship curriculum and is open to students pursuing any major at UNLV.

The Global Entrepreneurship Experience utilizes multidisciplinary perspectives to foster active and collaborative learning, to promote leadership and team building, and to help students turn great ideas into viable businesses. The student experience is enhanced and strengthened through mentoring and connection to the Las Vegas community.

The program is open to all students, regardless of their intended majors. Students will take one course each semester. In addition to a foundation in entrepreneurial startup and growth, courses in the experience examine creativity, innovation and teams, global entrepreneurship, and social entrepreneurship.

For additional information about the Global Entrepreneurship Experience, please visit the website at [www.unlv.edu/business/gep](http://www.unlv.edu/business/gep).

## Internships

Departments within the Lee Business School offer internship courses, based on availability, that are open to a limited number of qualified upper-division students. These courses consist of supervised, on-site research in various participating local enterprises, culminating in a written report.

Students pursuing an internship are required to do so within their major fields. Most internship courses are offered on a satisfactory/fail grading basis only. Generally, a student may earn a maximum of

three credits of internship, and the credits are usually used as an elective in the major.

Minimum college requirements to enroll in an internship course are: a 3.00 GPA or higher; admission to a business major and completion of nine credit hours of courses within the major. Some academic departments have additional requirements. For more information contact Undergraduate Advising or go to [www.unlv.edu/business/advising/undergrad](http://www.unlv.edu/business/advising/undergrad).

### Academic Advising

The Lee Business School offers professional advising through its Undergraduate Advising office. The college's advisors assist undergraduate students in identifying academic goals; serve as a resource to other campus services; and assist with academic questions, scheduling, graduation procedures, and various other paperwork.

To assist in the advising process, students should come to advising meetings prepared, having recently read the Undergraduate Catalog, and with a list of questions and a tentative course schedule.

For office hours and advising availability, please visit the Undergraduate Advising website at [www.unlv.edu/business/advising/undergrad](http://www.unlv.edu/business/advising/undergrad) or call the office at 895-3363.

### Business Administration Minor - Only for non-business majors

Students majoring in areas outside the Lee Business School are encouraged to complete the minor in Business Administration.

Requirements ..... Total Credits: 24

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 261 - Principles of Statistics I (or equivalent)
- FIN 301 - Principles of Managerial Finance
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management

#### Business Analytics

Requirements ..... Total credits: 18

Required foundation courses

- ECON 261 - Principles of Statistics I
- ECON 262 - Principles of Statistics II

Required Tools Area Courses.....6 credits

Select two of the following courses:

- ECON 306 - Applied Economic Analytics
- MKT 400 - Marketing Research
- MGT 391 - Quantitative Analysis

Select two from the following list of courses. The courses selected must be different than those courses taken to fulfill requirements for the tools area.....6 credits

- MGT 486 - Seminar in Quantitative Management Systems
- MGT 495 - Advanced Decision Systems
- FIN 322 - Insurance and Risk Management
- FIN 405 - Case Problems in Managerial Finance
- ECON 441 - Introduction to Econometrics
- ECON 455 - Industrial Organization
- MKT 468 - Database Marketing
- IS 383 - Business Intelligence

Global Entrepreneurship Experience

Global Entrepreneurship Experience..... Total Credits: 24

Minimum B- (2.7) grade required in each course. Minimum 2.75 GPA required for the minor

Includes:

- BGES 201 - Entrepreneurial Creativity
- BGES 202 - Innovation and Teams
- BGES 301 - Starting Entrepreneurial Organizations
- BGES 302 - Growing Entrepreneurial Organizations
- BGES 430 - International Entrepreneurship
- BGES 431 - International Seminar
- BGES 440 - Sustainability and Entrepreneurship
- BGES 441 - Social Entrepreneurship

#### BGES 201 - Entrepreneurial Creativity

Creativity is the driving force behind successful entrepreneurial organizations. This course will allow students to develop their creative abilities through experimentation and experience with a multitude of techniques. Students will be empowered to develop their own approaches, guidelines, and skills for integrating creativity into their entrepreneurial goals. 3 credit(s)

#### BGES 202 - Innovation and Teams

Increasingly, entrepreneurship happens in a team setting. This course focuses students on how to create and sustain an innovative organizational culture. Students will develop and demonstrate leadership and teambuilding skills through working on team-based creative projects and will learn how creative people and organizations behave in pursuit of entrepreneurial opportunities. Corequisite(s): BGES 201. 3 credit(s)

#### BGES 301 - Starting Entrepreneurial Organizations

Students will learn a variety of tools and concepts including feasibility analysis, trends analysis, opportunity recognition, and financial analysis for creating an entrepreneurial venture through a hands on, experience based curriculum. Prerequisite(s): BGES 201 BGES 201, BGES 202. 3 credit(s)

#### BGES 302 - Growing Entrepreneurial Organizations

The course focus includes evaluation of new venture opportunities, obtaining capital and other resources, personnel issues, business operations, and legal considerations. Students will prepare and present a business plan. The class is integrative and experiential in nature. Prerequisite(s): BGES 201, BGES 202, BGES 301. 3 credit(s)

#### BGES 430 - International Entrepreneurship

This course explores the knowledge necessary to create "global start-ups," acquire sustained competitive advantage, and make global venturing decisions in light of the opportunities and threats faced by entrepreneurs in today's global economy. Prerequisite(s): BGES 301, BGES 302. 3 credit(s)

#### BGES 431 - International Seminar

This course provides students "on the ground" exposure to the environment and challenges of international business and requires an integrative analysis of the issues. Students will visit selected organizations, meet business people, and engage in the culture of a designated country. Prerequisite(s): BGES 430. 3 credit(s)

#### BGES 440 - Sustainability and Entrepreneurship

Sustainability and entrepreneurship are intertwined, encompassing environmental issues as well as social and financial issues. At its heart, sustainability is about applying creativity and innovation to systems thinking. Throughout the semester, students use practical tools and techniques for identifying issues, developing solutions, troubleshooting problems, measuring progress, and implementing entrepreneurial change. Prerequisite(s): BGES 301, BGES 302. 3 credit(s)

#### BGES 441 - Social Entrepreneurship

Social Entrepreneurship is about using entrepreneurial skills to craft innovative responses to social problems. It aims at social impact but does not exclude economic wealth creation. Social Entrepreneurship involves recognizing opportunities, combining and mobilizing resources, triggering positive change in various domains, and building sustainability. Prerequisite(s): BGES 440. 3 credit(s)



**BLW 101 - Personal Law**

Practical and legal situations about family, consumer, sales, real property, landlord tenant, wills, estates, criminal and tort law in the context of Nevada law. 3 credit(s)

**BLW 302 - Legal Environment**

Nature and function of law; legal system; constitutional law; administrative law; antitrust; consumer protection; torts; product liability. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**BLW 331 - Real Estate Law I**

Law of real property transfers, deeds, leases, title insurance, escrows, land contracts, foreclosures, recordings. Law as it affects brokers and salesmen. Prerequisite(s): Admission to a business major/junior standing, MGT 303. 3 credit(s)

**BLW 375 - International Business Law**

Legal regulations which promote or restrain trade and investment by business firms engaged in international business activities. Regional, national and international sources of law affecting international business transactions explored. Prerequisite(s): Admission to a business major/junior standing, MGT 303. 3 credit(s)

**BLW 431 - Real Estate Law II**

Legal environment of real estate. Zoning laws, land use regulation, eminent domain, growth controls, impact fees, and other regulation of the use of real estate. Prerequisite(s): Admission to a business major/junior standing, BLW 331. 3 credit(s)

**BLW 435 - Construction Law**

Focuses on the legal and ethical environment of basic Construction Law concepts in Nevada. Topics include the legal aspects of engineering and construction contracts and specifications, contract formation, interpretation, rights and duties, and changes, legal liabilities and professional ethics of architects, engineers, and contractors, Nevada's mechanic's lien laws, Nevada's Prompt Pay Statute for Public Works and Nevada's Right to Stop Work Statute. Prerequisite(s): Admission to a business major or junior standing, MGT 303. 3 credit(s)

**BLW 450 - Law of the Internet**

Focus on the legal and ethical environment of doing business over the Internet. Topics include personal jurisdiction in cyberspace, electronic speech, privacy and data collection, on-line contracting, intellectual property, cybercrime and security, consumer protection, taxation, and Internet transactions involving securities. Prerequisite(s): Admission to a business major/junior standing, and MGT 303. Note(s): This course is crosslisted with BLW 650. Credit at the 600-level requires additional work. 3 credit(s)

**BLW 474 - Business Law II**

Law of commercial paper; secured transactions; creditor's rights; bankruptcy; agency; business organizations (partnerships and corporations); securities regulation. Prerequisite(s): Admission to a business major/junior standing, ACC 473. 3 credit(s)

**BLW 478 - Seminar in Current Business Law Topics**

Structured analysis of current topics in business law. Topics covered vary from semester to semester, depending upon developments in the discipline. Prerequisite(s): Admission to a business major/junior standing, MGT 303. 3 credit(s)

**BUS 103 - First-Year Seminar Business Connections**

This course is designed to help freshmen new to UNLV and interested in business learn, understand, and employ the skills needed for a successful academic experience and for effective career exploration. Instruction will include specific business applications. Prerequisite(s): Freshman only. Note(s): Fulfills First-Year Seminar requirement. 3 credit(s)

# Accounting Department

**Accounting****BSBA - Accounting****Accounting Minor****Auditing Minor**

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

***Purpose and Focus***

The Department of Accounting is committed to providing high quality undergraduate and graduate programs that prepare our students for careers in business and to advance the understanding and practice of accounting through teaching, research, service, and outreach activities.

***Accreditation***

Northwest Commission on Colleges and Universities

AACSB International — The Association to Advance Collegiate Schools of Business (separate accreditation for the accounting program)

***Internships***

The Accounting Department offers an internship course that is open to a limited number of qualified upper-division students. An internship consists of supervised, on-site work at various participating local enterprises, culminating in a written report.

Minimum requirements are admission to a business major, junior standing, a 3.00 GPA or higher, and successful completion of at least nine credits of upper-level accounting courses. Students interested in participating in the internship program should visit the Department of Accounting web site for more information.

Students taking an internship course are required to do so within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student may receive only three credit hours for an internship.

**Accounting Major- Bachelor of Science in Business Administration (BSBA)**

See the UNLV Lee Business School web page at [www.business.unlv.edu](http://www.business.unlv.edu) for information about department programs, faculty and facilities.

See advising information at the UNLV Lee Business School Undergraduate Advising at [www.business.unlv.edu/advising](http://www.business.unlv.edu/advising).

***Accreditation***

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business [www.aacsb.edu/](http://www.aacsb.edu/)

***Learning Outcomes***

1. Upon completion of the BSBA in Accounting program, students should be able to think critically
2. Apply analytical/decision-making skills to accounting issues
3. Communicate well both in writing and orally
4. Understand ethical issues facing accountants
5. Apply interpersonal and teamwork skills
6. Use technology appropriate to accounting
7. Research accounting issues

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 33-37 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

- MATH 124 - College Algebra (or higher)

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts - Credits: 9
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by business requirements
- Life and Physical Sciences and Analytical Thinking - Credits: 6-7
  - Science with a lab or non-lab science
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/student>

Business Administration

Core Requirements ..... Subtotal Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- ACC 473 - Law for Accountants I
- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Other Lee Business School Requirements..... Subtotal Credits: 9

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry

- MATH 132 - Finite Mathematics
  - MATH 176 - Introductory Calculus for Business and Social Sciences
  - MATH 181 - Calculus I
- or

- MATH 182 - Calculus II

Major Requirements - BSBA in Accounting ..... Subtotal: 24 credits

- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I
- ACC 402 - Financial Reporting II
- ACC 405 - Cost Management and Control
- ACC 409 - Accounting Information Systems
- ACC 410 - Federal Taxation
- ACC 470 - Auditing and Assurance Services

one three-credit upper-division (300- or 400-level) accounting elective.

General Electives..... Credits: 0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: ..... 120

## Notes

1. Students planning to take the CPA examination should take additional courses at the graduate level. Consult with the State Board of Accountancy for CPA examination requirements.
2. Students preparing for careers in industry should consider taking ACC 420 as an upper-division accounting elective.
3. Students interested in focusing their elective course work should consult an advisor early in their academic career to allow for proper planning of electives.
4. All courses in the accounting major must be completed with a grade of C or better. To satisfy an accounting prerequisite, a student must earn a C or better in the prerequisite course(s).

## Accounting Minor — Only for non-accounting majors

Requirements ..... Total Credits: 18

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I

and six credits of minor electives selected from upper-division (300- or 400-level) accounting classes, excluding ACC 473. Any upper-division course that is applied toward a major degree will not count as a minor elective.

## Auditing Minor — Only for non-accounting majors

Requirements ..... Total Credits: 18

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ACC 400 - The Accounting Environment
- ACC 401 - Financial Reporting I

Select six credits from the following:

- ACC 406 - Auditing in the Gaming Industry
- ACC 420 - Internal Auditing
- ACC 470 - Auditing and Assurance Services

Any upper-division course that is applied toward a major degree will not count as a minor elective.

**ACC 201 - Financial Accounting**

Overview of the annual report with emphasis on financial statements. Analysis of business transactions and their effects on external financial statements. Theories, practices, and concepts underlying accounting information used in the decision-making process. Prerequisite(s): Sophomore standing. 3 credit(s)

**ACC 202 - Managerial Accounting**

Basic concepts and procedures of managerial accounting. Focuses on making management decisions using financial and related information. Provides methods for managers to correctly identify and analyze alternative courses of action in a business context. Prerequisite(s): ACC 201 with a minimum C grade. 3 credit(s)

**ACC 400 - The Accounting Environment**

Explores the accounting profession, accounting information systems, internal controls, accounting decision-making, the accounting process and financial accounting, and accounting research. Prerequisite(s): Admission to a business major/junior standing, successful completion of a Competency Exam, completion of ACC 201 with a grade of B- or better, completion of ACC 202 with a grade of B- or better. 3 credit(s)

**ACC 401 - Financial Reporting I**

Study of current accounting objectives, principles, theory, and practice in the preparation, interpretation, and analysis of general purpose financial statements for external users, as established by the Financial Accounting Standards Board and predecessor organizations. Prerequisite(s): Admission to a business major/junior standing, ACC 400, FIN 301. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 600. Credit at the 600-level requires additional work. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 601. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 402 - Financial Reporting II**

Continuation of the study of current accounting objectives, principles, theory, and practice in the preparation, interpretation, and analysis of general purpose financial statements for external users, as established by the Financial Accounting Standards Board and predecessor organizations. Prerequisite(s): Admission to a business major/junior standing, ACC 400, ACC 401. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 600. Credit at the 600-level requires additional work. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 602. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 405 - Cost Management and Control**

Provides a thorough understanding of cost accounting theory and practice with emphasis on product costing concepts and methods, the use of cost information for strategic planning and decision analysis, and current cost topics including the influence of technology on accounting. Prerequisite(s): Admission to a business major/junior standing, completion of ACC 201 with a grade of B- or better, completion of ACC 202 with a grade of B- or better. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 600. Credit at the 600-level requires additional work. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 605. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 406 - Auditing in the Gaming Industry**

Audits of gaming entities; terminology; regulatory requirements and the associated compliance audit requirements; control systems and the inherent risks unique to the gaming industry. Prerequisite(s): Admission to a business major/junior standing and ACC 470 as either a prerequisite or a corequisite. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 606. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 407 - Governmental and Not-for-Profit Accounting**

Study of the rules and procedures for accounting under the fund accounting principles of GASB. Entities covered are state and local governments and governmental not-for-profit organizations. Fund types include Governmental Funds, Proprietary Funds, and Trust & Agency Funds. Prerequisite(s): Admission to a business major/junior standing, ACC 401. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 607. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 409 - Accounting Information Systems**

Promotes business solutions through the use of information technology. Tools and topics may include accounting software, databases, cycle-based analysis of internal controls, system documentation techniques, and data modeling. Prerequisite(s): Admission to a business major/junior standing, ACC 400. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 609. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 410 - Federal Taxation**

Introduction to a broad range of tax concepts and types of taxpayers, including corporations, pass-through entities, and sole proprietorships. Emphasizes the role of taxation in the business decision process, and provides students with the ability to conduct tax research, compliance and planning. Prerequisite(s): Admission to a business major/junior standing, completion of ACC 201 with a grade of B- or better, completion of ACC 202 with a grade of B- or better. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 610. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 412\* - Fraud Examination**

Covers the pervasiveness of and causes of fraud and white-collar crime; explore methods of fraud detection, investigation and prevention; and increase your ability to detect material financial statement fraud. Emphasis on real world cases, and current newspaper and journal articles. Prerequisite(s): Admission to a business major/junior standing, ACC 409. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 612\*. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 420 - Internal Auditing**

Study of internal auditing as an independent, objective assurance and consulting activity designed to add value and improve an organization's operations. Emphasis on communication and analytical skills. Prerequisite(s): Admission to a business major/junior standing and ACC 470 as either a prerequisite or a corequisite. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 620. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 450 - International Accounting**

Comparative accounting systems and their economic and social development patterns, foreign currency translation, analyzing multinational financial transactions and statements, accounting for international inflation, auditing in an international environment, international reporting and disclosures and international taxation and transfer pricing. Prerequisite(s): Admission to a business major/junior standing, ACC 202. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 650. Credit at the 600-level requires additional work. 3 credit(s)

**ACC 470 - Auditing and Assurance Services**

Environment of auditing and other assurance services, including professional standards, ethics and legal liability. Techniques and procedures employed in gathering audit evidence and reporting requirements. Prerequisite(s): Admission to a business major/junior standing, ACC 401 as a prerequisite, and ACC 409 as either a prerequisite or as a corequisite. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): This course is crosslisted with ACC 670. Credit at the 600-level requires additional work. 3 credit(s)

### **ACC 473 - Law for Accountants I**

Formerly Listed as BLW 273.

Introduction to law and the court system; introduction to torts and criminal law; contracts and sales; real and personal property. Prerequisite(s): Admission to a business major/junior standing. The maximum number of attempts for this course is three, including earned grades, withdrawals and audits. Note(s): May not earn duplicate credit in BLW 273 and ACC 473 or in BLW 474 and ACC 473. This course is crosslisted with ACC 673. Credit at the 600-level requires additional work. 3 credit(s)

### **ACC 481 - Accounting Internship**

Supervised practical experience in accounting leading to experience at a professional level. Prerequisite(s): Admission to a business major/junior standing, a 3.00 GPA or higher and successful completion of at least nine credits of upper-division accounting courses. Note(s): S/F grading only. 1-3 credit(s)

### **ACC 490 - Independent Study**

Independent study in selected topics. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing, successful completion of nine credit hours of upper-division accounting courses, and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

## **Economics Department**

### **BA-Economics**

### **BSBA-Economics**

### **BSBA-Real Estate and Urban Economics**

### **Economics Minor**

### **Real Estate Minor**

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

### ***Purpose and Focus***

Economics explores decision making in a world of scarce resources and unlimited wants, focusing on the behavior and interaction of consumers, workers, businesses, and government. People with training in economics experience high demand in the job market for several reasons. First, employers value the skills that studying economics challenges students to develop. These skills include critical thinking; problem solving; and the ability to find, manage, and analyze data. Second, world events often involve economic concepts, making economics majors desirable to financial institutions, government agencies, corporations, labor unions, consulting firms, and other organizations. Training in economics also provides excellent preparation for law school, and MBA programs, and doctoral studies. As a result, economics as a major, minor, or second major proves an attractive option to many students.

### ***Accreditation***

Northwest Commission on Colleges and Universities

AACSB International—The Association to Advance Collegiate Schools of Business

### **Economics Major- Bachelor of Arts (BA)**

Please see the UNLV Lee Business School web page at [www.business.unlv.edu](http://www.business.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at [www.business.unlv.edu/advising](http://www.business.unlv.edu/advising).

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business  
[www.aacsb.edu/](http://www.aacsb.edu/)

### ***Learning Outcomes***

1. Use supply and demand analysis;
2. Apply the concept of opportunity cost;
3. Use marginal analysis;
4. Use the appropriate models to explain the behavior of economic agents in different market structures;
5. Explain the causes of short-run fluctuations in macroeconomic variables;
6. Explain the determinants of long run economic growth;
7. Predict the effects of various micro- and macroeconomic policies using the appropriate models;
8. Gather, analyze, and interpret economic data;
9. Describe the role and function of financial markets, institutions, and policies;
10. Analyze global economic issues.



## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits  
(See note 1 below)

General Education Requirements..... Subtotal: 35-49 Credits  
If students' ACT or SAT test scores place them directly into ENG 102, then the number of general education credits will be reduced by 3. Where specific courses are not identified, please see the related section of the Undergraduate Catalog for information about which courses may satisfy university core requirements.

First-Year Seminar ..... Credits: 2-3  
English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 3-6

Mathematics ..... Credits: 3  
• MATH 124 - College Algebra or higher

Distribution Requirements ..... Credits: 18-19  
Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by economics requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Life and Physical Sciences - 6-7 credits
- One science course with a lab
- One non-lab science course
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement  
Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Foreign Language/Foreign Culture ..... Credits: 6  
Two courses in the same foreign language at the university level or the equivalent or two courses (at least six credits) in a foreign culture. Students should consult with an academic advisor regarding acceptable foreign culture courses.

Pre-major and Major Requirements -

BA in Economics..... Subtotal: 33 Credits  
Nine of the 33 required economics major credits must be 400-level ECON courses.

- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I
- ECON 262 - Principles of Statistics II

or

- ECON 441 - Introduction to Econometrics
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 495 - Seminar in Economic Research

and four three-credit upper-division (300- or 400-level) economics electives. (Because the economics major requires at least nine of the 33 required credits be 400-level ECON courses, students should plan carefully in order to satisfy this requirement.) Please see advising information at the UNLV Lee Business School Undergraduate Advising at [www.business.unlv.edu/advising](http://www.business.unlv.edu/advising).

General Electives..... Credits: 38-52  
The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: ..... 120

## Advanced Track

Accomplished UNLV undergraduates must meet all of the following criteria to be eligible for the Advanced Program Track:

- Minimum of 3.0 GPA  
Completion of the following courses with a minimum of 3.5 GPA and no grade lower than B: ECON 262 or ECON 441; ECON 302; ECON 303 and MATH 181
- Department chair or graduate coordinator's recommendation
- Submission of two letters of recommendation, a completed Enrollment Request form to the Economics Department no less than two weeks before the beginning of the semester for which they would like to register for graduate courses.

## Note

1. Students planning to pursue graduate studies in economics are encouraged to take Advanced Track.

## Economics Major- Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School web page at [www.business.unlv.edu](http://www.business.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at [www.business.unlv.edu/advising](http://www.business.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business  
[www.aacsb.edu/](http://www.aacsb.edu/)

## Learning Outcomes

1. Use supply and demand analysis;
2. Apply the concept of opportunity cost;
3. Use marginal analysis;
4. Use the appropriate models to explain the behavior of economic agents in different market structures;
5. Explain the causes of short-run fluctuations in macroeconomic variables;
6. Explain the determinants of long run economic growth;
7. Predict the effects of various micro- and macroeconomic policies using the appropriate models;
8. Gather, analyze, and interpret economic data;
9. Describe the role and function of financial markets, institutions, and policies;
10. Analyze global economic issues.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 35-40 Credits

Where specific course are not identified, please see the related section of the Undergraduate Catalog for information about which courses may satisfy university core requirements.

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 Composition I
- ENG 102 Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics..... Credits: 3

MATH 124 - College Algebra or higher

Distribution Requirements ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by economics requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Life and Physical Sciences - 6-7 credits
- One science course with a lab
- One non-lab science course
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

Lee Business School Requirements -

BSBA in Economics ..... Subtotal: 75-80 Credits

Other Lee Business School Requirements..... Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I

or

- MATH 182 - Calculus II

Business Administration Core Requirements..... Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Economics Major Requirements ..... Credits: 24

Nine of the 24 required economics major credits must be 400-level ECON courses.

- ECON 262 - Principles of Statistics II

or

- ECON 441 - Introduction to Econometrics
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 304 - Money and Banking
- ECON 462 - International Trade

or

- ECON 463 - International Monetary Relations
- ECON 495 - Seminar in Economic Research

and three-credit upper-division (300- or 400-level) economics electives. (At least one of these electives must be a 400-level ECON course.)

General Electives..... Credits: 0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: ..... 120

## Notes

1. Students planning to pursue graduate studies in economics are encouraged to take ECON 402, 403, 440, 441, 442 and 493 .
2. Students interested in careers in government are encouraged to take ECON 307, 354, 451 and 470 .
3. Students pursuing careers in business are encouraged to take ECON 457, 441, 462, 463 and 480 .
4. For students planning a career in law, a major in economics offers excellent preparation. Recommended electives for the pre-law major include ECON 354, 455 and 457.

## Real Estate and Urban Economics Major - Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School web page at [www.business.unlv.edu](http://www.business.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at [www.business.unlv.edu/advising](http://www.business.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
www.nwccu.org  
Program - The Association to Advance Collegiate Schools of Business  
www.aacsb.edu/

## Learning Outcomes

Upon graduation, students earning a degree in Real Estate and Urban Economics should be able to:

1. use supply and demand analysis;
2. use the appropriate models to explain the behavior of economic agents in different market structures;
3. describe the role and function of financial markets, institutions, and policies;
4. predict the effects of various micro- and macroeconomic policies using the appropriate models;
5. explain the determinants of long run economic growth;
6. gather, analyze, and interpret economic data;
7. apply the time value of money to a variety of situations;
8. explain the relationship between risk and return;
9. analyze, compare, and contrast various real estate appraisal valuation methods; investment opportunities, and mortgage instruments;
10. identify basic regional demographics and migration.

## University Graduation Requirements

Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 35-46 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics ..... Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas.  
It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by economics requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Life and Physical Sciences - 6-7 credits
- One science course with a lab
- One non-lab science course
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International..... Credits: 0-6

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Lee Business School Requirements - BSBA in Real Estate and Urban Economics..... Subtotal: 65-80 Credits

Other Lee Business School Requirements..... Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I

or

- MATH 182 - Calculus II

Business Administration Core Requirements..... Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Real Estate and Urban Economics Major

Requirements ..... Credits: 24

Major Courses: Required: (12 credits)

- BLW 331 - Real Estate Law I
- RE 332 - Real Estate Finance
- RE 334 - Real Estate Investment
- RE 451 - Real Estate Development I

or

- RE 481 - Real Estate Internship

Choose 12 credits from the following electives:

- AAE 457 - Architecture in Las Americas
- AAE 481 - Architecture, Place and Identity
- AAL 430 - Land Use Management
- AAL 446 - Land Use Planning and Controls
- ACC 401 - Financial Reporting I
- BLW 431 - Real Estate Law II
- BLW 435 - Construction Law
- ECON 262 - Principles of Statistics II
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics
- ECON 441 - Introduction to Econometrics
- ECON 451 - Public Finance
- ECON 470 - Urban and Regional Economics
- EGG 307 - Engineering Economics

- FIN 303 - Intermediate Managerial Finance
- FIN 307 - Investments
- FIN 312 - Capital Markets
- FIN 405 - Case Problems in Managerial Finance
- MKT 455 - Services Marketing
- MKT 464 - Professional Sales Negotiations Strategies and Tactics
- MKT 465 - Sales Force Management
- MGT 471 - Leadership & Managerial Skills
- MGT 483 - Negotiation
- MGT 497 - Business Plan Creation
- RE 301 - Real Estate Fundamentals
- RE 333 - Real Estate Valuation
- RE 452 - Real Estate Development II

Electives.....Credits: 0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum credits required to earn a degree from Lee Business School is 120.

Total Credits: ..... 120

## Economics Minor

Requirements .....Total Credits: 21

- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

and four additional three credit upper-division (300- or 400-level) ECON classes.

Recommended electives include:

- ECON 302 - Intermediate Microeconomics
- and
- ECON 303 - Intermediate Macroeconomics

## Advanced Track

Accomplished UNLV undergraduates must meet all of the following criteria to be eligible for the Advanced Program Track:

- Senior standing
- Minimum of 3.0 GPA
- Completion of the following courses with a minimum of 3.5 GPA and no grade lower than B: ECON 262 or ECON 441; ECON 302; ECON 303 and MATH 181
- Department chair or graduate coordinator's recommendation
- Submission of two letters of recommendation, a completed Enrollment Request form to the Economics Department no less than two weeks before the beginning of the semester for which they would like to register for graduate courses

## Real Estate Minor

Requirements .....Total Credits: 21

Required courses .....Total Credits: 15

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- BLW 331 - Real Estate Law I
- FIN 301 - Principles of Managerial Finance
- RE 332 - Real Estate Finance

and two additional three-credit courses (6 credits) selected from:

- BLW 435 - Construction Law
- ECON 470 - Urban and Regional Economics
- RE 333 - Real Estate Valuation
- RE 334 - Real Estate Investment
- RE 451 - Real Estate Development I

## ECON 102 - Principles of Microeconomics

Introduction to economic organization of society with emphasis on how markets and prices guide and direct economic activity. Economic analysis applied to a wide range of contemporary issues. Prerequisite(s): MATH 124 or higher with a minimum C grade. 3 credit(s)

## ECON 103 - Principles of Macroeconomics

Integration of markets to determine gross domestic product and national income. Relation between the United States economy and the world economy. Determination of consumption, capital formation, government services, and international trade. Cause and cure for unemployment, inflation, and economic stagnation. Prerequisite(s): ECON 102 with a minimum C grade, MATH 124 or higher with a minimum of C grade. 3 credit(s)

## ECON 104 - Current Economic Issues

Analysis of current economic issues. Economic theories and concepts basic to the analysis of issues introduced, explained, and applied. 3 credit(s)

## ECON 150 - Economics for Teachers

Specialized instruction in basic economic concepts with discussions of strategies and techniques dealing with the introduction of these concepts into the curricula of elementary and secondary schools. Prerequisite(s): Sophomore standing. 3 credit(s)

## ECON 180 - The Economics of Discrimination

Investigates the economic causes, effects, and remedies of discrimination based on age, ethnicity, gender, religion, national origin, or sexual orientation. 3 credit(s)

## ECON 190 - Global Economics

Introduction to the economic organization of global markets. Analysis of international trade and finance, transnational corporations, global economic institutions, economic growth and economic systems. 3 credit(s)

## ECON 200 - Capitalism, Constitutions and American Ideals

Economic analysis of the role of federal and state governments in the United States, particularly as it relates to their constitutional powers and limitations. Students will be expected to read original works in the field, and produce analytical critiques of actual and proposed government policies. Prerequisite(s): Sophomore standing. 3 credit(s)

## ECON 222 - Applied Economics

Application of economics to policy choices on global, national, state, and local scales. Students will read original source materials, and produce analyses of active and proposed government policies. Prerequisite(s): ECON 102. 3 credit(s)

## ECON 261 - Principles of Statistics I

Descriptive and inferential statistics for prediction and decision making, with managerial and economic applications. Includes probability theory and distributions, hypothesis testing, and regression analysis. Prerequisite(s): MATH 124 or higher with a minimum grade of C. 3 credit(s)

## ECON 262 - Principles of Statistics II

Advanced statistical techniques, including multiple regression, the cross-sectional time series model, analysis of variance, and non-parametric statistics. Prerequisite(s): Admission to a business major/junior standing, ECON 261 or equivalent. 3 credit(s)

## ECON 302 - Intermediate Microeconomics

Analysis of the price mechanism, resources allocation, output composition, and income distribution in a market economy. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

## ECON 303 - Intermediate Macroeconomics

Analysis of income, output, employment, and price level determination in a market economy. Role of fiscal and monetary policy in promoting stability and growth. Prerequisite(s): Admission to a business major/junior standing, ECON 103. 3 credit(s)



**ECON 304 - Money and Banking**

Nature of money. Determination of the quantity of money by the commercial banks, the Federal Reserve, and the United States Treasury. Intensive analysis of commercial banking, money, and capital markets, interest rate determination, the foreign sector, and banking. Prerequisite(s): Admission to a business major/junior standing, ECON 103. 3 credit(s)

**ECON 305 - Comparative Economic Systems**

Analysis of the economic institutions of capitalism and other economic systems. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 306 - Applied Economic Analytics**

Topics related to business, management and economic decision making are covered. Excel and other programs are used to work through applications of supply and demand, pricing strategies, market simulations, applied welfare analysis, and other topics. Prerequisite(s): ECON 102, ECON 261. 3 credit(s)

**ECON 307 - Environmental Economics**

Economics of environmental quality and resource development. Consideration of public policies to account for environmental pollution to air, water, and land resources. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 309 - Resource Economics**

Economics analysis of renewable and non-renewable resources. Examination of resource allocation across generations. Other topics include species extinction and conservation of resources. Emphasis on public policy alternatives. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 312 - Global Economics and Development**

Examination of diverse international economic conditions and paths of development. Analysis of policies fostering economic development, integration, and sustainable financial relations in the global economy. Prerequisite(s): ECON 103. 3 credit(s)

**ECON 313 - Economics of Public Policy**

Course addresses the role of government, economic rationales for policy interventions, and policy evaluation. Topics include: externalities; public goods; taxes; asymmetric information and others. Students will be asked to conduct analyses of a variety of public-policy issues, such as the environment, health care, energy, regulation of industry, and education. Prerequisite(s): ECON 102. 3 credit(s)

**ECON 320 - Health Economics**

Economic analysis of the health care sector, including physician, hospital, and insurance markets. Emphasis on roles of government, information, and externalities in health care. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 321 - Economics of Sport and Entertainment**

Economic analysis of college and professional sports, gaming, and the performing arts, including film, music, television, and the Internet. Topics include economic effects on host communities, labor issues, government regulation, facility economics, copyright law, and industry structure and competitiveness. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 334 - Economic History of the United States**

Origin and development of economic institutions including industry, agriculture, commerce, transportation, labor, and finance. Analysis of the economic progress of the United States. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 354 - Government and Business**

General survey of government activities affecting business, emphasizing on the legal concepts of property and contract and such policies as antitrust regulation. Primary reference to the public utility industries. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 358 - International Economics**

Introduction to the principles of international economics. Covers international trade and international finance. Emphasizes the forces of globalization and how they affect U.S. firms and workers. Prerequisite(s): Admission to a business major/junior standing, ECON 102, ECON 103. 3 credit(s)

**ECON 359 - Economic Development**

Analysis of problems, principles, and policies of economic development. Case studies of selected countries. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 365 - Labor Economics**

Labor union history and organization; labor market analysis of wages, hours, employment and working conditions; collective bargaining and labor legislation. Prerequisite(s): Admission to a business major/junior standing, ECON 102. 3 credit(s)

**ECON 402 - Topics of Microeconomics**

Extensions of microeconomic analysis. Application of traditional microeconomic concepts to study economic phenomena. Emphasis on decision making in the public policy arena. Prerequisite(s): Admission to a business major/junior standing, ECON 302 and MATH 124 or equivalent. 3 credit(s)

**ECON 403 - Topics in Macroeconomics**

Extensions of macroeconomic analysis. Application of economic analysis to study macroeconomic phenomena. Implications for inflation, unemployment, growth, and the effectiveness of fiscal and monetary policy. Prerequisite(s): Admission to a business major/junior standing, ECON 303 and MATH 124 or equivalent. 3 credit(s)

**ECON 440 - Introduction to Mathematical Economics**

Application of mathematics to economic analysis. Prerequisite(s): Admission to a business major/junior standing, MATH 124 and ECON 302 or ECON 303. 3 credit(s)

**ECON 441 - Introduction to Econometrics**

Measurement of economic relationships, with stress upon the estimation of parameters of stochastic economic models. Prerequisite(s): Admission to business major/junior standing, ECON 261, and ECON 302 or ECON 303. 3 credit(s)

**ECON 442 - History of Economic Thought**

Analysis of the ideas of the principal contributors to the development of economics. Prerequisite(s): Admission to a business major/junior standing, six credits of economics. 3 credit(s)

**ECON 451 - Public Finance**

Analysis of the financing and provision of public goods. Topics include: the nature of public goods, the choice regarding the level of public good provision, the incidence of taxes, and issues of tax equity. Prerequisite(s): Admission to a business major/junior standing, ECON 302. 3 credit(s)

**ECON 455 - Industrial Organization**

Causes and implications of economic concentration and monopoly power. Comparison of alternative approaches to monopoly power in terms of social and economic goals. Prerequisite(s): Admission to a business major/junior standing, ECON 302. 3 credit(s)

**ECON 457 - Law and Economics**

Introduction to the use of economic reasoning to analyze legal issues. Topics include economic reasoning, trespass, breach of contract, torts, crime and punishment, the economics of trial and settlement, and careers in law and economics. Prerequisite(s): Admission to a business major/junior standing, ECON 261 and ECON 302. 3 credit(s)

**ECON 462 - International Trade**

Analysis of the theory of international trade, balance of payments, commercial policies, international institutions, and international economic integration. Prerequisite(s): Admission to a business major/junior standing, ECON 302. 3 credit(s)

**ECON 463 - International Monetary Relations**

Examination of the theory and policies relating to past and present international monetary relations. Comprehensive view of contemporary monetary institutions and problems. Prerequisite(s): Admission to a business major/junior standing, ECON 303. 3 credit(s)

**ECON 470 - Urban and Regional Economics**

Analysis of the structure and functioning of economic activities in urban and non-urban areas, including location and growth of cities and regions, inter- and intrametropolitan distribution of firms and residences, operation of land markets, planning local public services, and urban fiscal problems. Prerequisite(s): Admission to a business major/junior standing, ECON 302. 3 credit(s)

**ECON 480 - Managerial Economics**

Integrates the microeconomic theory of the firm and the tools of mathematical and statistical analysis to provide an analytical framework for the formulation of business policy. Prerequisite(s): Admission to a business major/junior standing, ECON 302, and ECON 262 or ECON 441. 3 credit(s)

**ECON 489 - Economics Internship**

Internship with business firms, nonprofit organizations, or government agencies. Joint supervision of activity supervisor and instructor. Prerequisite(s): A 3.00 GPA, admission to the major, and completion of nine credit hours of courses within the major; and permission of instructor. May be repeated to a maximum of six credits. Note(s): Project report and internship conferences required. 1-4 credit(s)

**ECON 490 - Independent Study**

Individual study in selected topics. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing, and completion of nine credit hours of courses within the major and permission of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**ECON 493 - Special Topics**

Study of selected topics of current interest in economics and of significance to the discipline. Prerequisite(s): ECON 302 and ECON 303. May be repeated to a maximum of six credits. 3 credit(s)

**ECON 495 - Seminar in Economic Research**

Capstone course for economics majors. Reviews the major theories and tools used by professional economists. Students attend Friday economics research seminars with faculty and graduate students. Culminates in a student research project presented to the department in oral and written form. Prerequisite(s): ECON 262 or ECON 441, ECON 302, ECON 303, and senior standing. 3 credit(s)

**RE 130 - Introduction to Real Estate**

Economic, legal, financial, marketing, managerial, and operational aspects of real estate. Prerequisite(s): Sophomore standing. 3 credit(s)

**RE 332 - Real Estate Finance**

Sources of funds, procedures for making and servicing loans, economic aspects of real estate financing, laws relating to ownership, zoning and transfer of real property. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**RE 333 - Real Estate Valuation**

The appraisal process and theory and techniques of residential and income property appraisal. Sales comparison, cost and income approaches to valuation examined, evaluated, and applied to valuation situations. Function and role of the real estate appraiser. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**RE 334 - Real Estate Investment**

Process and techniques of analyzing real property as an investment medium. Effects of market conditions and government policies upon real estate investment. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**RE 451 - Real Estate Development**

Evaluates ground-up development. Starting from an analysis of raw land different product types such as retail, office, single-family residential, multi-family, and industrial as well as specialty types (golf courses, assisted living) are discussed in terms of inception of an idea, site selection and analysis, market research, and feasibility, public regulations, contractual and commitment issues, construction process, asset management, and risk management. Prerequisite(s): Admissions to a business major/junior standing, BLW 331, and six credit hours of RE 300-level courses. 3 credit(s)

**RE 452 - Real Estate Development II**

Case study course oriented to the types of commercial real estate projects discussed in RE 451. Students will review real estate development utilizing the case study method. Lectures may be supplemented with guest speakers from the community focusing on different types of real estate development. Prerequisite(s): RE 451. 3 credit(s)

**RE 481 - Real Estate Internship**

Supervised on-site practical and professional learning experience in various participating local real estate enterprises, culminating in a written report. Prerequisite(s): Admission to the major, minimum 3.00 overall GPA, and minimum 3.00 major GPA with at least nine credit hours of RE 300-level courses completed. 3 credit(s)

**RE 490 - Real Estate Independent Study**

Study and research in the field of real estate. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours of courses within the major. May be repeated to a maximum of six credits. 1-3 credit(s)

**RE 495 - Current Topics in Real Estate**

Analysis of current topics in real estate issues such as valuation, finance, and investment. Prerequisite(s): Business major/senior standing, BLW 331, and six credit hours of RE 300-level courses. 3 credit(s)

# Finance Department

## BSBA-Finance Finance Minor

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

### ***Purpose and Focus***

The Department of Finance offers courses to prepare students for a variety of careers in the rapidly changing fields of finance, insurance, and investments. Students are exposed to both the theory and the practical applications of finance as it relates to their area. They are taught to focus on the key elements in complicated financial issues and to provide a solution based on theory, knowledge, analysis, and logic. During the second semester of the sophomore year, students should meet with a Lee Business School advisor to plan a specific program of study since it is essential that proper course sequencing be observed.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
AACSB International—The Association to Advance Collegiate Schools of Business

### ***Internships***

The Finance Department offers an internship course that is open to a limited number of qualified upper-division students. These courses consist of supervised, on-site work in various participating local enterprises, culminating in a written report. Minimum requirements are a 3.00 GPA, admission to the major, and completion of nine credits of core courses in the major, (selected from FIN 303, FIN 307, FIN 308, FIN 312), with an average GPA of 3.00 or above in those courses. Students interested in participating in the internship program should contact the Finance Department office and then apply for approval through Undergraduate Advising.

Students pursuing an internship course are required to take the internship within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student can generally use up to three hours of internship.

## **Finance Major - Bachelor of Science in Business Administration (BSBA)**

Please see the UNLV Lee Business School, Finance Department web page at <http://business.unlv.edu/finance/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Advising Center at [www.unlv.edu/business/advising/undergrad](http://www.unlv.edu/business/advising/undergrad).

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)  
School - Association to Advance Collegiate Schools of Business [www.aacsb.edu/](http://www.aacsb.edu/)

### ***Learning Outcomes***

Upon completion of the B.S.B.A. program in Finance, students should be able to:

1. Be able to recognize and apply time value of money concepts.
2. Be able to recognize and explain the relationship between risk and return.
3. Be able to recognize and explain how cash flows create value.
4. Be able to recognize and explain how information is reflected in market prices.

### **University Graduation Requirements**

- Please see Graduation Policies for complete information
- Degree Requirements..... Total: 120 Credits  
General Education Requirements..... Subtotal 35-46 Credits  
Where specific courses are not identified, please see the related sections of the Undergraduate Catalog for information about which course may satisfy University core requirements.
- First-Year Seminar ..... Credits: 2-3
- ENG 101 - Composition I
  - ENG 102 - Composition II
- English Composition ..... Credits: 6  
Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 3-6  
Mathematics ..... Credits: 3
- ..... MATH 124 - College Algebra or higher
- Distribution Requirement ..... Credits 18-19  
Please see Distribution Requirements for more information.
- Humanities and Fine Arts - Total Credits: 9
    - Humanities, 6 credits required from two different areas.  
It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
    - Fine Arts, 3 credits required
  - Social Science:
    - Automatically satisfied by business requirements
  - Life and Physical Sciences and Analytical Thinking: 9-10
    - Life and Physical Sciences - 6-7 credits
  - One science course with a lab
  - One non-lab science course
    - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning
- Multicultural and International Requirements ..... Credits 0-6  
Multicultural, one three-credit course required  
International, one three-credit course required  
These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>
- Lee Business School Requirements -  
BSBA in Finance..... Subtotal: 75-80 Credits  
Other Lee Business School Requirements..... Credits: 9-11
- COM 102 - Introduction to Interpersonal Communication
  - ENG 407A - Fundamentals of Business Writing
- and  
Select one from:
- MATH 127 - Precalculus II
  - MATH 128 - Precalculus and Trigonometry
  - MATH 132 - Finite Mathematics
  - MATH 176 - Introductory Calculus for Business and Social Sciences
  - MATH 181 - Calculus I
- or
- MATH 182 - Calculus II

Business Administration Core Requirements.....Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Finance Major Requirements.....Credits: 24

Core Courses:

- FIN 303 - Intermediate Managerial Finance
- FIN 307 - Investments
- FIN 308 - International Financial Management
- FIN 312 - Capital Markets

Major Electives - Select four from the following courses. Two of the four must be 400-level finance courses.

- ACC 401 - Financial Reporting I

or

One economics course from:

- ECON 262 - Principles of Statistics II
- ECON 302 - Intermediate Microeconomics
- ECON 303 - Intermediate Macroeconomics

or

- FIN 321 - Corporate Risk Management
- FIN 322 - Insurance and Risk Management

or

- FIN 405 - Case Problems in Managerial Finance
- FIN 407 - Fixed Income Securities
- FIN 410 - Financial Derivatives
- FIN 419 - Portfolio Management
- FIN 425 - Student Managed Investment Fund I
- FIN 426 - Student Managed Investment Fund II
- FIN 427 - Student Managed Investment Fund III
- FIN 445 - Commercial Banking
- FIN 470 - Valuation
- FIN 480 - Entrepreneurial Finance
- FIN 481 - Finance Internship
- FIN 485 - Topics in Finance
- FIN 489 - CFA Exam Preparation
- FIN 490 - Independent Study

or

One real estate course from:

- RE 332 - Real Estate Finance
- RE 333 - Real Estate Valuation
- RE 334 - Real Estate Investment

(see notes below)

General Electives.....Credits: 0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total Credits: ..... 120

## Notes

1. Students must have earned 39 credits of 300- and 400-level courses upon graduation.

2. Suggested programs of study:

Students who intend to focus on certain functional areas in finance can choose one of the following suggested programs.

a. Financial management: finance core courses, ACC 401, FIN 321, FIN 405, FIN 480.

b. Investments: finance core courses, FIN 410, FIN 419, one elective finance course, RE 334.

c. Financial services: finance core courses, FIN 322, FIN 445, one 400-level FIN course, RE 332.

3. The prerequisites for some electives, such as ACC 401, are not degree applicable.

## Finance Minor

Requirements .....Total Credits: 21

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- FIN 301 - Principles of Managerial Finance

and four additional upper-division (300- or 400-level) approved elective courses. (If students majoring in areas outside of the Lee Business School do not have a statistical method background equivalent to ECON 261, then ECON 261 is required as one of the four additional elective courses.)

Risk Management and Insurance Minor

Requirements .....Total Credits: 21

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- FIN 301 - Principles of Managerial Finance

and four additional three-credit courses selected from the list below. Two of the electives must be insurance courses offered by the Finance Department. (If students majoring in areas outside of the Lee Business School do not have a statistical method background equivalent to ECON 261, then ECON 261 is required as one of the four additional elective courses.)

- FIN 321 - Corporate Risk Management
- FIN 322 - Insurance and Risk Management
- FIN 420 - Property and Liability Insurance
- FIN 421 - Life and Health Insurance
- FIN 422 - Risk Management Seminar
- MATH 320 - Mathematics of Interest
- MATH 471 - Actuarial Mathematics I
- MATH 472 - Actuarial Mathematics II
- MATH 473 - Risk Theory



**FIN 101 - Personal Finance**

Introduction to management of personal expenses and savings. Protection of family income, assets, and health. Taxes and estate planning. Does not apply toward a major in the Lee Business School. 3 credit(s)

**FIN 115 - Introduction to Investments**

Major types of investment securities and the markets in which they are traded. Mechanics of making an investment, including basic analytical and valuation techniques and a survey of investment literature and terms. Does not apply toward a major in the Lee Business School. 3 credit(s)

**FIN 151 - Introduction to Risk and Insurance**

Consumer-oriented approach to analyzing the impact of significant risks in business and personal life; a presentation of the available methods for treating those risks. Prerequisite(s): Sophomore standing. 3 credit(s)

**FIN 301 - Principles of Managerial Finance**

Finance function within business organizations; tools and techniques of financial management. Topics include financial mathematics; valuation of securities; financial analysis; capital budgeting; concepts of capital structure and dividend policy; and working capital management. Prerequisite(s): Admission to a business major/junior standing, ACC 201, ACC 202 and ECON 261. 3 credit(s)

**FIN 303 - Intermediate Managerial Finance**

Theoretical approach to financial management. Development of analytical tools and their application to practical, modern business financial problems. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**FIN 307 - Investments**

Introduction to the basic concepts of investments. Focus on analysis of the investment environment and decision process; overview of function and efficiency of securities markets; relation between risk and return; characteristics, valuation, and selection of various securities. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**FIN 308 - International Financial Management**

Study of the management of the financial resources of the multinational firm. Includes discussion of the basic differences of an international operation from domestic financial management. Topics include international financial markets, evaluating foreign investment opportunities, theories and practices of financing multinational operations. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**FIN 312 - Capital Markets**

Examination of the financial markets with emphasis on the linkage between saving and investment to create new wealth and to permit portfolio adjustments in the composition of existing wealth. Prerequisite(s): Admission to a business major/junior standing, FIN 301. 3 credit(s)

**FIN 321 - Corporate Risk Management**

Introduction to the corporate risk management function and the associated financial tools. Emphasizes the corporate risk management function from a financial perspective, and provides a conceptual framework for making risk management decisions that increase firm value. Covers pure (insurable), financial and credit risk management. Prerequisite(s): Admission to a business major/junior standing, FIN 301 or MATH 170 or MATH 320. 3 credit(s)

**FIN 322 - Insurance and Risk Management**

Provides an introduction to risk management and insurance emphasizing personal risk management. Topics include management of risks to personal property, liability risks and risks to income due to death and disability. Discusses the insurance industry, including marketing, underwriting, pricing and claims practices. Prerequisite(s): Admission to a business major/junior standing, FIN 301 or MATH 170 or MATH 320. 3 credit(s)

**FIN 345 - Managing New Venture Funding**

Financial issues facing entrepreneurial business ventures at all stages of their existence. Challenges students to build new skills through consideration of the following frameworks: Introduction and Opportunity assessment, operational aspects of finance related to entrepreneurial ventures, financing growth,

and other entrepreneurial finance issues. Prerequisite(s): Admission to a business major/junior standing, BUS 101, FIN 301. 3 credit(s)

**FIN 405 - Case Problems in Managerial Finance**

Intensive analysis of financial problems encountered by various types of business organizations, utilizing cases and emphasizing the corporation. Prerequisite(s): Admission to a business major/junior standing, FIN 303, FIN 312. 3 credit(s)

**FIN 407 - Fixed Income Securities**

Introduction to the markets for fixed income securities and their derivatives. Topics include pricing techniques for these instruments, fixed income portfolio management and the measurement and management of the risks inherent in fixed income securities. Prerequisite(s): FIN 307. 3 credit(s)

**FIN 410 - Financial Derivatives**

Introduces option pricing theory. Defines, describes, and explains various options as well as strategies of options trading. Central focus on the usefulness of options in portfolio management. Development, functions, and importance of commodities markets; principles and mechanisms of trading commodities on future markets. Includes speculation, hedging, and roles of commission houses and commodity exchanges. Prerequisite(s): Admission to a business major/junior standing, FIN 307, FIN 312. 3 credit(s)

**FIN 419 - Portfolio Management**

Theoretical and practical analyses of investment portfolios; portfolio selection process with relation to requirements of individuals and various institutions; and portfolio performance evaluation. Prerequisite(s): Admission to business major/junior standing, FIN 307, FIN 312. Note(s): This course is crosslisted with FIN 619. Credit at the 600-level requires additional work. 3 credit(s)

**FIN 420 - Property and Liability Insurance**

Examination of risk management for property and liability exposures. Identification of property loss and liability exposures and discussion of available risk management methods, including commercially available insurance coverages. Problems in liability insurance markets and potential solutions discussed. Prerequisite(s): Admission to a business major/junior standing, FIN 321 or FIN 322. 3 credit(s)

**FIN 421 - Life and Health Insurance**

Analysis of personal and business life and health insurance needs, characteristics of plans appropriate to meet those needs and unique tax and legal aspects of insurance planning. Examination of functional aspects of life/health insurance operations, including underwriting, ratemaking, reserving and financial statement analysis. Discussion of regulation and social insurance programs. Prerequisite(s): Admission to a business major/junior standing, FIN 321 or FIN 322. 3 credit(s)

**FIN 422 - Risk Management Seminar**

Analysis of corporate and individual risk management functions and risk handling techniques. Other topics include employee benefit programs, government regulations, insurance, and public policy. Prerequisite(s): Admission to a business major/junior standing, FIN 321. 3 credit(s)

**FIN 425 - Student Managed Investment Fund I**

This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades. Admission to the course by permission of the department. Prerequisite(s): Admission to a business major/junior standing, FIN 307. May be repeated to a maximum of six credits. 3 credit(s)

**FIN 426 - Student Managed Investment Fund II**

Continuation of FIN 425. This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades. Admission to the course by permission of the department. Prerequisite(s): FIN 425. May be repeated to a maximum of six credits. 3 credit(s)

**FIN 427 - Student Managed Investment Fund III**

Continuation of FIN 425, 426. This course is designed to give students hands-on experience in actively managing an actual investment portfolio. Students accept administrative responsibility, form analyst teams, establish selection criteria, research investments, make buy/sell decisions and execute trades. Admission to the course by permission of the department. Prerequisite(s): FIN 307. May be repeated to a maximum of six credits. 3 credit(s)

**FIN 445 - Commercial Banking**

Role of a commercial bank within the commercial banking system. Management of a bank's liabilities, capital, and assets. Policy decisions of the board of directors and top management; lending and portfolio policies and practices. Prerequisite(s): Admission to a business major/junior standing. FIN 312. 3 credit(s)

**FIN 470 - Valuation**

Apply financial principles to measure and manage the value of companies using a professional's step-by-step approach. Students estimate free cash flows, economic value added, and cost of capital. They also forecast accounting statements, compare absolute and relative valuation techniques, and evaluate restructuring opportunities and potential flexibility options. Prerequisite(s): FIN 303 or FIN 307. 3 credit(s)

**FIN 480 - Entrepreneurial Finance**

Focuses on the financial concepts, issues, methods and industry practices relevant to entrepreneurial decision makers. Addresses a variety of topics including financial valuation, various sources of funds, structures and legal issues in arranging financing, the private and public venture capital markets, preparation of business plans, and the initial public offering process. Provides understanding of the segments of the capital markets specializing in start-ups and growth financing. Prerequisite(s): Admission to a business major/junior standing, FIN 303 or FIN 345. 3 credit(s)

**FIN 481 - Finance Internship**

Supervised on-site practical and professional learning experience in various participating local enterprises, culminating in a written report. Prerequisite(s): Admission to the finance major, minimum 3.00 UNLV GPA, and minimum 3.00 major GPA with at least nine credit hours of finance major core courses completed (selected from FIN 303, FIN 307, FIN 308 and FIN 312). Note(s): S/F grading only. 3 credit(s)

**FIN 485 - Topics in Finance**

Advanced study of selected topics in finance (e.g., security regulation, mergers and acquisitions, behavioral finance). The specific topic and prerequisites are announced when the course is offered. Prerequisite(s): Variable, depending on the topic of the course. 3 credit(s)

**FIN 489 - CFA Exam Preparation**

This course is to prepare students for the Chartered Financial Analyst Level I examination. Topics covered include ethics and profession standards, economics and quantitative methods, financial reporting and analysis, corporate finance, equity and fixed income investments, portfolio analysis, derivatives and alternative investments. Prerequisite(s): FIN 303 or FIN 307. 3 credit(s)

**FIN 490 - Independent Study**

Study and research in the field of finance. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours of courses within the major. May be repeated to a maximum of six credits. 1-3 credit(s)

# Management, Entrepreneurship and Technology Department

**BSBA-Entrepreneurship****BSBA-Information Management****Entrepreneurship Minor****Information Management Minor****Management Minor**

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

***Purpose and Focus***

The Department of Management, Entrepreneurship and Technology offers courses to prepare students for a variety of careers in general management, entrepreneurship, and human resource management in both the public and the private sectors. The Department of Management, Entrepreneurship and Technology also offers a certificate program in human resource management for the local business community through the College of Extended Studies.

***Accreditation***

Northwest Commission on Colleges and Universities

AACSB International — The Association to Advance Collegiate Schools of Business

***Internships***

The Department of Management, Entrepreneurship and Technology offers an internship course that is open to a limited number of students. An internship consists of supervised, on-site work at various participating local enterprises, culminating in a written report.

Minimum requirements are admission to a business major, junior standing, a 3.00 GPA or higher, and successful completion of at least nine credits of upper-level management courses. Students interested in participating in the internship program should contact the chair of the Department of Management, Entrepreneurship and Technology then apply for approval from Undergraduate Advising.

Students pursuing an internship course are required to do so within their major field. Internship courses are offered on a satisfactory/fail grading basis only and are considered to be a major elective. A student may receive only three credit hours for an internship.

## Entrepreneurship Major - Bachelor of Science in Business Administration

Please see the UNLV Lee Business School web page at <http://www.unlv.edu/business> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at <http://www.unlv.edu/business/advising/undergrad>.

***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business  
[www.aacsb.edu/](http://www.aacsb.edu/)

## Learning Outcomes

1. Recognize, analyze, and construct feasible concepts within small business and entrepreneurial environments.
2. Propose plans to gather and organize resources to address evolving opportunity and the ongoing reassessment of needs as the context changes over time.
3. Propose appropriate plans for funding the startup and continued operations of an organization.
4. Develop an operations strategy, involving integrated production and distribution of goods, services, and information as a means to achieve competitive advantage.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements.....Total: 120 Credits

General Education Requirements.....Subtotal: 35-46

First-Year Seminar.....Credits: 2-3

English Composition.....Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar.....Credits: 3

Constitutions.....Credits: 3-6

Mathematics.....Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement.....Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by business requirements
- Life and Physical Sciences and Analytical Thinking: 6-7 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking, 3 credits required

- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Lee Business School Requirements -

BSBA in Entrepreneurship.....Subtotal: 75-80 Credits

Other Lee Business School Requirements.....Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I

or

- MATH 182 - Calculus II

Business Administration Core Requirements.....Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

(See note 1 below.)

Entrepreneurship Major Requirements.....Credits: 24

- MGT 302 - Small Business Management
- MGT 304R - Lean Start-Ups
- FIN 345 - Managing New Venture Funding
- FIN 480 - Entrepreneurial Finance
- MKT 472 - Marketing Planning and Analysis
- MGT 497 - Business Plan Creation

General Electives.....Credits: 0-10

The number of electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total Credits: ..... 120

## Notes

1. Students must take BUS 497\* as the capstone course in the business core.
2. Students interested in consumer opportunities are encouraged to choose MKT 312. Students interested in business-to-business opportunities are encouraged to take MKT 473.

## Management Major- Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School's Management, Entrepreneurship and Technology Department's web page at <http://www.unlv.edu/met> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Undergraduate Advising at <http://www.unlv.edu/business/advising/undergrad>.

## Accreditation

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

Program - The Association to Advance Collegiate Schools of Business [www.aacsb.edu/](http://www.aacsb.edu/)

## Learning Outcomes

1. Identify and explain the major tasks of the manager
2. Discuss and apply major theories concerning the behavior of people in modern business organizations
3. Identify and discuss alternate theories concerning the role of business in society, and implications of these theories
4. Identify and discuss key issues involved in international management
5. Identify and discuss key issues in the relations between workers and managers
6. Work with others to identify issues and prepare solutions in the practical management of business
7. Present analyses of and solutions to management problems in oral, written, and visual forms.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 35-46 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics ..... Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by business requirements
- Life and Physical Sciences and Analytical Thinking: 6-7 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking, 3 credits required
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement..... Credits: 0-6

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Lee Business School Requirements -

BSBA in Management Total:..... 120 Credits

Other Lee Business School Requirements..... Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences

- MATH 181 - Calculus I

or

- MATH 182 - Calculus II

Business Administration Core Requirements..... Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Management Major Requirements..... Credits: 24  
Required (15 hours)

- MGT 391 - Quantitative Analysis
- MGT 471 - Leadership & Managerial Skills
- MGT 483 - Negotiation
- MGT 492 - Advanced Organizational Behavior
- MGT 494 - Seminar in Management

Electives (9 hours)

- BUS 481 - Business Internship—Must be approved by the Department Chair or any MGT or IS courses numbered 300 or above not required in the core.

Electives - credits required vary in order to earn 120 degree-applicable credits

The number of electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the College of Business is 120.

Total Credits: ..... 120

## Entrepreneurship Minor

Minimum 2.75 GPA required

Requirements ..... Total Credits: 18

- MGT 302 - Small Business Management
- MGT 304R - Lean Start-Ups
- MGT 497 - Business Plan Creation

And three additional 300 or 400 level courses by approval of the department.

## Management Minor

Requirements ..... Total Credits: 18

- MGT 301 - Principles of Management and Organizational Behavior
- MGT 367 - Human Resource Management

and four upper-division (300- or 400-level) management (MGT or SCM elective courses.) MGT 303 may be used as a minor elective for non-business majors only.



**BUS 101 - Introduction to Business**

Cornerstone course for the Lee Business School. Introduces students to the business profession by integrating information across all departments within the college. Establishes a common foundation for students as business majors. Introduction to business communications, professionalism in business, areas and types of business enterprises. 3 credit(s)

**BUS 395 - Current Issues in Business**

Issues discussed in the popular business press. Emphasis on current events and issues in business. Prerequisite(s): Admission to a business major/junior standing, FIN 301, MGT 301, MKT 301. 2 credit(s)

**BUS 481 - Business Internship**

Supervised on-site practical experience in various local enterprises culminating in a written report. Prerequisite(s): A 3.00 GPA, admission to the major, and completion of nine credit hours of courses within the major. Note(s): S/F grading only. 3 credit(s)

**BUS 490 - Individual Study**

Study and research in the field of business administration. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours of courses within the major. May be repeated to a maximum of six credits. 1-3 credit(s)

**BUS 496 - Strategy Management and Policy**

Formulation, implementation and evaluation of management strategies for achieving organizational objectives. Integrated coverage of: mission and objectives definition; analysis of external and internal environments including ethics, social responsibilities, and international considerations; and strategic decision making. Prerequisite(s): FIN 301, MGT 301, MKT 301; admission to a business major/junior standing. Note(s): Capstone course. 3 credit(s)

**BUS 497 - New Venture Creation and Strategy**

Business tools and skills necessary to successfully start and operate a business. Focus on evaluation of new ventures, financial considerations, personnel issues, business operations, and legal considerations. Development of a business plan. Prerequisite(s): FIN 301, MGT 301, MKT 301; admission to a business major/junior standing. Note(s): Capstone course. 3 credit(s)

**BUS 498 - Global Business Strategy**

Integrated coverage of management strategies relating to international businesses. Special topics include: mission and objectives, analysis of external and internal environments, ethics, strategic decision making, international diversification. Prerequisite(s): FIN 301, MGT 301, MKT 301, admission to a business major/junior standing. Note(s): Capstone course. 3 credit(s)

**IS 101 - Introduction to Information Systems**

Concepts and applications of Management Information Systems. Introduction to hardware, software, data, and file concepts. Microcomputer applications software including word processing, spreadsheet, data base, Internet, and presentation software. 3 credit(s)

**IS 210 - Introduction to Programming Methodology**

Programming methodology for the business information processing environment to include program analysis, design, test, and documentation. Concepts are reinforced by a contemporary programming language. Recommended to take in sophomore year. Prerequisite(s): IS 101 or equivalent. 3 credit(s)

**IS 370 - Systems Analysis Theory**

Analysis, synthesis, design, and development of management information systems. Overview of system development methodologies. Topics include determining information needs, analysis techniques, input/output, processes, system implementation, information engineering, project management, and systems maintenance. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**IS 376 - Enterprise Information Systems Architecture and IBM System i/AS 400**

Introduces the concept of enterprise information systems architecture and its impacts on various aspects of business organizations. Conceptual learnings are reinforced by hands-on exercises in a virtual IBM System i environment. Prerequisite(s): IS 210 or CS 218 and CS 219. 3 credit(s)

**IS 378 - Project Management I**

Formerly Listed as IS 488.

Concepts, skills, tools, and techniques involved in project management. Topics include project organization, project life cycle, planning, executing, budgeting, scheduling, controlling, reporting, and closing. Also, project integration, scope, time, cost, quality, risk management, conflict resolution, and roles and responsibilities. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**IS 380 - Object-Oriented Programming**

Introduces concept of object-oriented programming, a structured and powerful programming technique offering advantages over the traditional approach. C++ or Java used as tools to write object-oriented programs effectively. Students write business application programs using a contemporary object-oriented programming language to solve real-world problems. Prerequisite(s): Admission to a business major/junior standing, IS 210. 3 credit(s)

**IS 383 - Business Intelligence**

Formerly Listed as IS 483.

Skills, technologies, applications, and practices to leverage the organizations' internal and external information assets for making intelligent business decisions in data-rich organizations. Topics include online analytics, interactive reporting, data integration, data mining, and business performance management. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**IS 388 - Web Application Development**

Develop dynamic web applications with an emphasis on design, programming, testing, implementation, and documentation. Projects use contemporary integrated development environments to develop business software applications that access information over the Internet. Topics include client-side technologies, server-side technologies and data base access. Prerequisite(s): Business College major and a minimum grad of C in IS 210 and junior standing or higher.. 3 credit(s)

**IS 389 - Advanced Business Systems Development**

Advanced methodology of program design, development, testing, implementation, and documentation. Includes coverage of sequential, random, and indexed file structures and processing techniques, use of data base management systems, screen design techniques, system maintenance, and development of programs and systems of programs for batch and interactive environments using contemporary programming languages. Prerequisite(s): Admission to a business major/junior standing, IS 210. 3 credit(s)

**IS 463 - Study and Proposal of New Business Systems**

Methods and techniques required to propose new systems for processes, applications, and products. Topics include idea generation, data collection, analysis, project proposals, client presentations, sourcing and vendor negotiation. Emphasis on data collection techniques, including structured and unstructured individual and group interviews, survey questionnaires, observation, and document analysis. Prerequisite(s): Admission to a business major/junior standing and IS 378. 3 credit(s)

**IS 475 - Database Design and Implementation**

Introduction to relational database concepts, and all issues related to the design and implementation of relational database systems. Emphases include entity relationships modeling, normalization, and structured query language (SQL). Students apply technical concepts through implementation of a database project. Prerequisite(s): Admission to a business major/junior standing, IS 383. 3 credit(s)

**IS 476 - Oracle Database Administration**

Provides a foundation in basic Oracle database administrative tasks. Students introduced to the Oracle database architecture, and how various software components relate to an actual database implementation. Examines the means to create, tune, monitor, and manage an operational database effectively. Lectures and discussions reinforced with hands-on practice. Prerequisite(s): Admission to a business major/junior standing, IS 475. 3 credit(s)

**IS 477 - Data Communications**

Survey of data communication network architectures and practices including client-server relationships and local area networks. Prerequisite(s): Admission to a business major/junior standing, IS 210. 3 credit(s)

**IS 478 - Advanced Data Communications**

Principles and advanced practices of network security, with an emphasis on the use of intrusion detection techniques to deter, detect, assess, and respond to network intruders. Foundations of network security, design of a network defense using firewalls, virtual private networks, and intrusion detection tools and techniques. Prerequisite(s): Admission to a business major/junior standing, IS 477. 3 credit(s)

**IS 480 - Internship in Information Systems**

Supervised practical experience with a computing facility, industrial firm, or governmental agency, leading to experience at a professional level. Prerequisite(s): A 3.00 GPA, admission to the major, and completion of nine credit hours within the major. Note(s): S/F grading only. 1-3 credit(s)

**IS 484 - IT Sourcing and Leadership**

This course focus on the sourcing issues for IS development and integration in organizations. Topics include outsourcing, offshoring, multisourcing, vendor selection, vendor evaluation, coordination and negotiation, risk mitigation, contract management, relationship management, intellectual property, sustainability and long-term strategy, culture of integration, retention, social influences, core competencies, and critical success factors. Prerequisite(s): Admission to the major/junior standing, IS 210.

**IS 485 - Seminar in Information Systems**

Selected topics, studies of current interests in management information systems. Prerequisite(s): Admission to a business major/junior standing. May be repeated to a maximum of six credits. 1-3 credit(s)

**IS 486 - Seminar in Information Systems II**

Selected topics, studies of current interests in management information systems. Prerequisite(s): Admission to a business major/junior standing. May be repeated to a maximum of six credits. 3 credit(s)

**IS 489 - Business Intelligence II**

Implementation of Data Warehousing / Business Intelligence applications including requirements management, data design, ETL, dimension and cube development, and reporting. Also includes current issues in data mining and analytics to support business strategic planning and innovation. Prerequisite(s): Admission to the program and junior standing, IS 383. 3 credit(s)

**IS 490 - Independent Study in Information Systems**

Investigation of special problems in management information systems. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours within the major. May be repeated to a maximum of six credits. 1-3 credit(s)

**IS 495 - IS Development and Management**

Capstone MIS course. Students working in groups formulate, design, program, document, and implement a major information systems project under the guidance of various MIS staff members. Management of the information systems function, systems integration, and project management to ensure project quality. Prerequisite(s): Admission to a business major/junior standing, IS 370, IS 475. 3 credit(s)

**MGT 301 - Principles of Management and Organizational Behavior**

Fundamentals and principles of management. Administrative policies, objectives, and procedures. Problems of organization control and leadership. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**MGT 302 - Small Business Management**

Shows what is involved in forming, operating, and/or owning a small business. For those who work in a small business or want to start a small business. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**MGT 303 - Business Law & Society**

This course examines the relationship between businesses and the society in which they operate. The legal and ethical issues that arise in these relationships, and their implications for important stakeholders, will be emphasized. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

**MGT 304R - Technology Entrepreneurship—Lean Start-ups**

Students map out product ideas by describing nine core components on a business model canvas. Students validate models by talking to customers, suppliers, and key partners. Students iterate through the customer development process until they have convincing proof of a viable business model. Benefits students from a variety of backgrounds. Prerequisite(s): Admission to a business major/junior standing, MGT 302. 3 credit(s)

**MGT 305 - Applied Entrepreneurship**

Internationally recognized course in partnership with NxLevel and the Nevada Small Business Development Center for students who want to start and grow businesses. NxLevel certified instructors cover entrepreneurial assessment, research, organization, marketing, financial planning, cash flow, and raising capital. Students will develop comprehensive business plans. Prerequisite(s): Admission to a business major/junior standing. Note(s): Course will not count as an elective for the entrepreneurship major. 3 credit(s)

**MGT 367 - Human Resource Management**

Objectives, functions, organization, and philosophy of personnel relations. Special emphasis on employment, training, and labor relations. Prerequisite(s): Admission to a business major/junior standing and MATH 127 - Precalculus II or higher. 3 credit(s)

**MGT 391 - Quantitative Analysis**

Identification and formulation of decision problems; introduction to the use of quantitative tools in business including linear programming, non-linear programming, game theory and similar techniques; construction of quantitative models and their relationship to the use of electronic computers in business decision making. Prerequisite(s): Admission to a business major/junior standing and MATH 127 or higher. 3 credit(s)

**MGT 415 - Business and Society**

Study of the evolution of American business in the context of its changing political and social environment. Analysis of the origins of the American business creed, the concept of social responsibility of business, and the expanding role of the corporation. Prerequisite(s): Admission to a business major/junior standing and a minimum grade of C in MGT 301, BLW 302. Note(s): This course is crosslisted with MGT 615. Credit at the 600-level requires additional work. 3 credit(s)

**MGT 450 - Systems Simulation**

Simulation and modeling. Monte Carlo techniques. Generation of random and stochastic variables; verification of simulation models; design of simulation experiments. Prerequisite(s) Admission to a business major/junior standing, MGT 391. 3 credit(s)

**MGT 465 - Collective Bargaining and Public Policy**

Systematic discussion of the major labor problems confronting society. Problems relating to management and union, industrial conflicts, collective bargaining, and legal environment considered. Prerequisite(s) Admission to a business major/junior standing, six credits of economics to include ECON 102. 3 credit(s)

**MGT 468 - Employment Law**

In-depth exposure to both federal and state legislation involving equal employment opportunity, occupational safety and health, and labor-management relations. Information on and experience in developing, organizing, and constructing an Affirmative Action Plan for both the public and private sectors. Prerequisite(s) Admission to a business major/junior standing and MGT 367. 3 credit(s)

**MGT 470 - Compensation**

Analysis of manager and worker jobs in private and public organizations and the social, psychological, economic, and legal influences that affect their compensation. Prerequisite(s) Admission to a business major/junior standing, with a minimum grade of C in MGT 367. 3 credit(s)

### **MGT 471 - Leadership & Managerial Skills**

This class focuses on the concepts, theories and case studies concerning the leadership and motivation of people in modern organizations. The class also provides a framework for observation and analysis, and experience in the team assignments for that observation and analysis. Prerequisite(s): Admission to a business major/junior standing, MGT 301. 3 credit(s)

### **MGT 475 - Seminar in Human Resource Management**

Capstone course in personnel/human resource management with emphasis on current topics and issues in personnel, legal issues, and quantitative computer tools for personnel decision making. Specialized seminar in management geared toward industrial relations management. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MGT 367. 3 credit(s)

### **MGT 480 - International Management**

Strategy, operations, and external relationships involved in international commerce with emphasis on the management of multinational corporations. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MGT 301. Note(s): This course is crosslisted with MGT 680. Credit at the 600-level requires additional work. 3 credit(s)

### **MGT 483 - Negotiation**

This course is designed to enhance understanding of the negotiation process, and the ability to negotiate deals, dispute settlements and team decisions. The role of third parties in the negotiation process (arbitrators, mediators and managers as third parties) will also be examined. Prerequisite(s): Admission to a business major/junior standing, MGT 301. 3 credit(s)

### **MGT 486 - Seminar in Quantitative Management Systems**

Selected topics, readings, and discussion of current issues in quantitative management systems. Prerequisite(s): Admission to a business major/junior standing, MGT 391. 3 credit(s)

### **MGT 490 - Individual Study**

Independent study in selected topics. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing, successful completion of nine credit hours of upper-division management courses, and consent of instructor. May be repeated to maximum of six credits. 1-3 credit(s)

### **MGT 492 - Advanced Organizational Behavior**

Concepts, theories, and case studies concerning the behavior of people in modern business organizations. Prerequisite(s): Admission to a business major/junior standing, a minimum of C in MGT 301. 3 credit(s)

### **MGT 493 - Seminar in Entrepreneurship**

Advanced analysis of the nature, problems and approaches to, financing, managing, marketing, staffing and operating the entrepreneurial organization through the study of recent, relevant literature and selected cases. Prerequisite(s): MGT 301 and junior or senior standing. 3 credit(s)

### **MGT 494 - Seminar in Management**

Analysis of the nature and problems of, and approaches to, management planning, organizing, decision making, and controlling through the study of recent relevant literature and selected cases. Prerequisite(s): Admission to the major and a minimum grade of C in MGT 301 and senior standing. 3 credit(s)

### **MGT 495 - Advanced Decision Systems**

Applied quantitative analysis using case studies and computer software. Optimization techniques, stochastic modeling, and Expert Systems. Emphasis on the development of effective decision support systems. Prerequisite(s): Admission to a business major/junior standing, MGT 391. 3 credit(s)

### **MGT 497 - Business Plan Creation**

Learn how to create investor quality business plans. Follow a step-by-step process to develop your business plan from an opening executive summary to a financial offering. Students will be strongly encouraged to collaborate with engineering students in this class. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

## **Marketing and International Business Department**

### **BSBA-International Business**

### **BSBA-Marketing**

### **International Business Minor**

### **Marketing Minor**

For academic requirements that apply to all students in the Lee Business School, please refer to the Lee Business School section of the Undergraduate Catalog.

### ***Purpose and Focus***

The Department of Marketing and International Business provides a professional orientation to education with course work emphasizing both the theory and the practice of Marketing and International Business. The Marketing degree strives to instill a marketing frame of reference in doing business; to develop an understanding and appreciation of how marketing interacts with the other aspects of an organization; and to establish a foundation of marketing knowledge that will best prepare majors and minors for careers in their chosen fields. Students are provided with the knowledge of business and marketing theory along with opportunities to apply that knowledge in simulated or real business situations.

Students with degrees in marketing obtain employment in a wide range of marketing-related fields, including retailing, product/brand management, advertising, distribution, international business, marketing research, purchasing, services marketing, sports marketing, hospitality, and sales management. Upon graduation, students are also prepared to enter programs for advanced degrees in such areas as business administration, public administration, law, economics, and hotel administration.

Every major industry has an increased global presence. The International Business program provides students with the analytical tools and conceptual knowledge to understand International Marketing, Finance, and Strategy. The International Business program prepares students for careers with multinational firms within the United States or with International organizations. Competency in a foreign language is a requirement of the program.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
AACSB International — The Association to Advance Collegiate Schools of Business

### **International Business Major - Bachelor of Science in Business Administration (BSBA)**

Please see the UNLV Lee Business School Marketing and International Business Department's web page at <http://www.unlv.edu/mibhttp> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Advising Center at <http://www.unlv.edu/business/advising/undergrad>.

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)  
School - Association to Advance Collegiate Schools of Business  
[www.aacsb.edu/](http://www.aacsb.edu/)



## Learning Outcomes

By the end of the IB program students will be able to:

1. Demonstrate third year language proficiency and cultural knowledge in the student's chosen foreign language
2. Demonstrate working knowledge of a chosen functional area of business
3. Explain the factors that determine international trade patterns and capital flows, and analyze their impact on global business operations
4. Identify the major components of culture and explain how cultural differences affect the conduct of business.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements.....Total: 120-135 Credits

The international business major provides students with a general understanding and appreciation of global business and economic environments, various cultures, and diverse values. This interdisciplinary program combines liberal arts studies and professional education. As such, the program has its roots in disciplines dealing with the basics of behavioral studies, with theoretical structures and with empirical analyses. The program provides a foundation for understanding current and future business and economic conditions.

An increasing share of local, regional, and national economic activities are attributed to exports, imports, trade in intellectual property and technology-intensive products, U.S. investment abroad, and foreign investment in the United States. These patterns of business activities require personnel, both at home and abroad, with a solid academic base for dealing with the changing concepts, practices, and integrated international business organizations. In addition, such personnel must have an in-depth understanding of other nations, languages, and cultures. The program includes opportunities for students to obtain part of their education in foreign universities such as in UNLV's Turin, Italy, program.

The international business major also prepares students for advanced degrees in areas such as business administration, public administration, law, economics, and other social science and liberal arts disciplines. Students pursuing the major in international business may pursue other business majors by completing the respective requirements.

For details about admission requirements, transfer policies, degree and graduation requirements, and college policies, please refer to the Lee Business School section of the Undergraduate Catalog.

General Education Requirements..... Subtotal: 35-46 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics..... Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.

- Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by business requirements
- Life and Physical Sciences and Analytical Thinking: 6-7 credits
  - Two courses from life and physical sciences category; at least one must have a lab.

- Analytical Thinking, 3 credits required

- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement ..... Credits: 0-6

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

Lee Business School Major Requirements -

BSBA in International Business..... Subtotal: 87-92 Credits

Other Lee Business School Requirements..... Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

and

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I

or

- MATH 182 - Calculus II

Business Administration Core Requirements..... Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office Proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management
- BUS 498 - Global Business Strategy (capstone course - see note 1)

International Business major requires 24 credit hours -- 18 business credits (9 credits IB requirements + 9 credits functional business area) + 6 language/area studies

International Business Requirements ..... Credits: 9

- IB 425 - Global Consumer Behavior

or

- MKT 425 - Global Consumer Behavior
- IB 480 - International Business

or

- MGT 480 - International Management



- MKT 456 - International Marketing

or

- MKT 456 - International Marketing

Functional Business Area Requirement ..... Credits: 9

Three 3-credit, upper-division (300- and 400- level) courses from one of the following functional areas of business (ECON, FIN, MGT, and MKT). Courses taken to satisfy the international business requirement cannot be counted toward the functional business area requirement. ECON: ECON 312 or ECON 358 plus two upper-division (300- and 400- level) IB or ECON electives.

FIN: FIN 308 plus two upper-division (300- and 400- level) IB or FIN electives.

MGT: Three upper-division (300- and 400- level) IB or MGT electives.

MKT: Three upper-division (300- and 400- level) IB or MKT electives.

Language/Area Studies Requirement ..... Credits: 6

Students must demonstrate third-year level proficiency in a selected foreign language. Foreign language proficiency may be demonstrated by:

- a. A cumulative GPA of 2.00 or higher in 301 and 302 of the selected language. (Where offered, the business language course may be substituted for 302. Students must meet the language course prerequisites set by the Department of World Languages & Cultures. If that department determines a student's language skills are too advanced for the 301 or 302 course, the student must see an advisor in Undergraduate Advising.)

- b. Proficiency by examination. (see MIB Department)

If proficient, students must complete 6 credits from:

1. Courses in a foreign language;
2. Courses in a related area studies;
3. A combination of 1-2.

Electives - Total Credits: Dependent on level of language proficiency

Total Credits: ..... 120-123

### Note

1. Students must take BUS 498 as the capstone course in the business core.

## Marketing Major - Bachelor of Science in Business Administration (BSBA)

Please see the UNLV Lee Business School, Marketing Department web page at <http://www.unlv.edu/mib> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Lee Business School Advising Center at [business.unlv.edu/advising/](http://business.unlv.edu/advising/)

### Accreditation

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

School - Association to Advance Collegiate Schools of Business [www.aacsb.edu/](http://www.aacsb.edu/)

### Learning Outcomes

1. Synthesize topic - related basic and applied research in marketing
2. Incorporate research based consumer psychology into marketing problem analysis and strategy.
3. Critically evaluate marketing strategies.
4. Describe, evaluate and apply a market orientation

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 35-46 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics..... Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Humanities, 6 credits required from two different areas. It is recommended that students take COM 101 - Oral Communication, as one of the humanities courses.
  - Fine Arts, 3 credits required
- Social Science
  - Automatically satisfied by business requirements
- Life and Physical Sciences and Analytical Thinking: 6-7 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking, 3 credits required

- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International Requirement..... Credits: 0-6

Multicultural, one three-credit course required

International, one three-credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BSBA in Marketing ..... Subtotal: 75-80 Credits

Other Lee Business School Requirements..... Credits: 9-11

- COM 102 - Introduction to Interpersonal Communication
- ENG 407A - Fundamentals of Business Writing

Select one from:

- MATH 127 - Precalculus II
- MATH 128 - Precalculus and Trigonometry
- MATH 132 - Finite Mathematics
- MATH 176 - Introductory Calculus for Business and Social Sciences
- MATH 181 - Calculus I
- MATH 182 - Calculus II

Business Administration Core Requirements..... Credits: 42-45

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 261 - Principles of Statistics I

Microsoft Office proficiency

- FIN 301 - Principles of Managerial Finance
- IS 378 - Project Management I
- IS 383 - Business Intelligence
- MGT 301 - Principles of Management and Organizational Behavior
- MGT 303 - Business Law and Society

or

- BLW 302 - Legal Environment
- MGT 367 - Human Resource Management
- MKT 301 - Marketing Management
- SCM 352 - Operations Management

Select one capstone course from:

- BUS 496\* - Strategy Management and Policy
- BUS 497\* - New Venture Creation and Strategy
- BUS 498 - Global Business Strategy

Marketing Major Requirements ..... Credits: 24

- MKT 400 - Marketing Research
- IB 425 - Global Consumer Behavior

or

- MKT 425 - Global Consumer Behavior
- MKT 472 - Marketing Planning and Analysis
- MKT 495 - Marketing Policies

Select four courses from the following list.

- MKT 380 - Principles of Internet Marketing
- MKT 422 - Advertising and Promotional Management
- MKT 441 - Distribution Systems
- MKT 442 - Retailing Management
- MKT 448 - Projects, Competitions and Cases in Marketing Research
- MKT 450 - Competitive Strategies for Product and Price Management
- MKT 455 - Services Marketing
- MKT 456 - International Marketing

or

- IB 456 - International Marketing
- MKT 464 - Professional Sales Negotiations Strategies and Tactics
- MKT 465 - Sales Force Management
- MKT 468 - Database Marketing
- MKT 473 - Business Marketing
- MKT 483 - Marketing Internship
- MKT 490\* - Independent Study in Marketing
- MKT 492 - Advanced Seminar in Marketing
- MKT 494 - Experience Marketing
- SCM 474 - Purchasing and Global Sourcing

Or any 300 or 400 level MKT elective course offered by UNLV

Electives..... Credits: 0-10

The number of general electives necessary for each student varies based on how many credits a student uses to satisfy the requirements identified above. The minimum number of degree-applicable credits required to earn a degree from the Lee Business School is 120.

Total: ..... 120 Credits

## International Business Minor

Requirements ..... Total Credits: 18

15 Hour International Business Requirements:

- IB 425 - Global Consumer Behavior
- or
- MKT 425 - Global Consumer Behavior

- IB 480 - International Business

or

- MGT 480 - International Management
- MGT 301 - Principles of Management and Organizational Behavior
- MKT 301 - Marketing Management
- IB 456 - International Marketing

or

- MKT 456 - International Marketing

3 credits from the following list:

ECON 190, ECON 312, ECON 358, FIN 308, IB 225, IB 435, JOUR 475, MGT 475, MGT 492, MKT 380, MKT 435, HON 430 The Global Economy, SOC 429, SCM 474 or any IB course offered by the Marketing and International Business Department.

At least 12 credits used for the minor must be unique to the minor and may not be used to satisfy requirements in the major or other degrees or minors.

Minimum C (2.0) grade required in each minor business course. Minimum 2.00 GPA required in minor.

## Note

Twelve credits must be unique to the minor

(Students who have already taken MKT 312 or IB/MKT 325 may substitute that course for IB 425)

## Marketing Minor

Requirements ..... Total Credits: 18

- MKT 301 - Marketing Management
- and
- five, three-credit upper-division (300- or 400-level) MKT electives

## IB 480 - International Business

This course considers the objectives and strategies of international business in the context of global competition. It equips students with a comprehensive framework to formulate strategies in the global marketplace, with intensive study of the unique aspects of doing business in foreign continents. Prerequisite(s): Admission to a business major/junior standing, MGT 301. 3 credit(s)

## IB 481 - International Business Internship

Supervised on-site practical experience in international business at an enterprise or agency, culminating in a written report. Prerequisite(s): A 3.00 GPA, admission to the major and completion of nine credit hours of courses within the major. Note(s): May occur locally or abroad. S/F grading only. 3 credit(s)

## MKT 301 - Marketing Management

Planning and executing the conception, pricing, promotion, and distribution of ideas, goods, and services to create exchanges that satisfy individual and organizational objectives. Prerequisite(s): Admission to a business major/junior standing. 3 credit(s)

## MKT 312 - Buyer Behavior

Individual differences, social and cultural factors, and situational variables that impact on attitude formation and change, learning, decision making, and behavior of consumers. Emphasis on the use of this information to develop marketing programs. Prerequisite(s): Admission to a Lee Business School major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

## MKT 380 - Principles of Internet Marketing

Theory and practice of marketing on the internet. Focuses on role of internet marketing in marketing strategy, internet process, internet mechanics, and internet site construction. Includes practical experience in formulating internet marketing plans and operational Web sites. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

## MKT 400 - Marketing Research

Methodology of research. Focuses on topics such as research design, sample design, questionnaire construction, field procedures, data analysis, and report preparation. Involves practical experience in marketing research. Prerequisite(s): Admission to a Lee Business School major/junior standing, and a minimum grade of C in MKT 301, ECON 261 or equivalent. 3 credit(s)

**MKT 422 - Advertising and Promotional Management**

The communication process as it relates to the promotional mix, including both traditional and non-traditional media. Theories and applications pertaining to all strategically managed areas of marketing communications are covered. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 427 - Advertising Campaigns**

Study of the components of a successful advertising campaign. Students undertake preliminary preparations for an actual ad campaign. Prerequisite(s): Admission to a business major/junior standing, MKT 312 or MKT 422 or JOUR 261. 3 credit(s)

**MKT 441 - Distribution Systems**

Structure of institutions in the channel of distribution, including retailers, wholesalers, and agent middlemen. Organization and appraisal of movement and storage of raw materials, work-in-process, and finished goods, middleman functions, including inventory and price policies, trade sales promotion, franchising, and other vertical marketing systems. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 442 - Retailing Management**

Balanced descriptive, applied, and conceptual approach to retailing. Focuses on areas in which retailers can maximize profit opportunities by proper use of the marketing variables in a changing environment. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 448 - Projects, Competitions and Cases in Marketing Research**

Data driven marketing strategies and decision making based on combining all aspects of the research process. Integration of results from qualitative and quantitative exploratory, descriptive, and causal primary and secondary research. Prerequisite(s): Admission to a business major/junior standing, MKT 301. 3 credit(s)

**MKT 450 - Competitive Strategies for Product and Price Management**

Competitive analysis and planning techniques for product and price management. Focus on defining the competition, analyzing the competition's posture, and positioning, developing competitive strategies and tactics, market opportunity analysis, segmentation, competitive analysis, product positioning, brand equity management, setting and managing price. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 455 - Services Marketing**

Marketing problems and strategies specific to service industries. Differences in the marketing of intangibles and services. Emphasis on services in general, rather than any particular industry. Concepts applied to such service industries as health care, the professions, the arts, banking, financial services, advertising and communications, and consulting. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 456 - International Marketing**

Principles, policies, opportunities, and obstacles in the marketing of goods and services in global markets. Global trade theory, application of the marketing mix variables in cross-cultural settings, and the tactics and strategies of multinational businesses. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 464 - Professional Sales Negotiations Strategies and Tactics**

The theory, processes, and practices of sales negotiation, relationship building and conflict resolution. Builds on the concepts learned in the Marketing Management course. Develops an understanding of the marketing theories, strategies, and tactics of effective sales negotiation, conflict resolution, and relationship management. Prerequisite(s): Admission to a business major/junior standing, MKT 301. 3 credit(s)

**MKT 465 - Sales Force Management**

Management of the sales force strategies for marketing products and services to commercial, institutional, and governmental customers. Topics include the strategic role of the sales function; the sales process; relationship and sales channel strategies; the design, development, direction, and evaluation of the sales organization; and ethical and global dimensions. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. 3 credit(s)

**MKT 468 - Database Marketing**

Theory, concepts, and skills associated with using databases to enhance marketing programs and build strong relationships with customers. Prerequisite(s): Lee School Business major and a minimum grade of C in MKT 301, and junior or higher standing. 3 credit(s)

**MKT 470 - Direct Marketing**

Principles and applications of direct marketing, frequency marketing programs, relationship marketing, and integrated marketing. Focus on database management, selection of products and services, and developing the offer. Prerequisite(s): Admission to a business major/junior standing, and a minimum grade of C in MKT 301. Note(s): This course is crosslisted with MKT 670\*. Credit at the 600-level requires additional work. 3 credit(s)

**MKT 472 - Marketing Planning and Analysis**

Marketing planning skills. Includes practice of developing marketing plans and the use of marketing technology and models in the marketing planning process. Prerequisite(s): Admission to a business major/junior standing, and minimum grade of a C in MKT 301. 3 credit(s)

**MKT 473 - Business Marketing**

Provide a thorough grounding in industrial or business-to-business marketing. While many of the concepts are similar to those used in consumer marketing, there are significant differences. This course will explore both the similarities and the differences. Prerequisite(s): Admission to a business major/junior standing, MKT 301. 3 credit(s)

**MKT 474\* - Sports Marketing**

Study of theoretical foundations and practical skills associated with sports marketing. Focuses on expertise needed to successfully develop and implement a sports marketing plan concentrating on sport customers and sponsors, and managing a sport team's franchise equity. Prerequisite(s): Admission to a business major/junior standing, MKT 301 or TCA 380. 3 credit(s)

**MKT 483 - Marketing Internship**

Supervised on-site practical, professional learning experience in marketing. Prerequisite(s): (For marketing majors only) Admission to a business major/junior standing, nine hours of marketing, 3.00 GPA. Note(s): S/F grading only. 1-3 credit(s)

**MKT 490\* - Independent Study in Marketing**

Independent study in selected topics. Prerequisite(s): A 3.00 GPA, admission to the major, senior standing and completion of nine credit hours of courses within the major. May be repeated to a maximum of six credits. 1-3 credit(s)

**MKT 492 - Advanced Seminar in Marketing**

Selected topics, readings, and discussion of current marketing issues. Prerequisite(s): Senior standing, MKT 301. 1-3 credit(s)

**MKT 494 - Experience Marketing**

Basic understanding of developing, managing and enhancing experiential goods and services. Topics include: understanding and measuring the experience, design issues, management issues, wearout, and developing memorable experiences. Prerequisite(s): Lee Business School major and a minimum grade of C in MKT 301 and junior or higher standing. 3 credit(s)

**MKT 495 - Marketing Policies**

Marketing analysis and decision making. Integrates knowledge acquired in other courses in marketing and related areas. Extensive use of cases and/or computer simulations. Prerequisite(s): Lee Business School major and a minimum grade of C in MKT 301, MKT 312, MKT 400, and senior standing. 3 credit(s)

**SCM 352 - Operations Management**

Analytical aids to management decision making. Integrated approaches to decisions involving organizational policies and principles, production processes, materials, manpower, and/or equipment. Where appropriate, computer assistance utilized. Prerequisite(s): Admission to a business major/junior standing, MGT 301 and ECON 261. 3 credit(s)

**SCM 473 - Supply Chain Management**

Fundamentals of supply chain management including the integration of the value-adding elements of purchasing, operations, and logistics processes internally and with suppliers and customers. Related topics include supplier and customer relationship management, supply chain management in services, supply chain design, and supply chain performance measurement. Prerequisite(s): Admission to a business major/junior standing, SCM 352. 3 credit(s)

**SCM 474 - Purchasing and Global Sourcing**

Principles of purchasing, public procurement, contract management, and global sourcing. Topics include the purchasing process, procurement in profit and non-profit organizations, buyer-supplier relationship, price determination, purchasing services, supply law and ethics, and global sourcing. Prerequisite(s): Admission to a business major/junior standing, SCM 352. 3 credit(s)

**SCM 475 - Process Management, Planning, and Control**

Analysis of production and service processes in organizations to include just-in-time, total quality management, material requirements planning and enterprise resource planning systems, inventory management, scheduling, queuing, process design, and statistical process control. Prerequisite(s): Senior standing, SCM 352. 3 credit(s)

**SCM 477 - Logistics and Supply Chain Integration**

Study of the movement and storage of raw materials, work-in-process, and finished goods throughout the global supply chain with emphasis on integrating these activities to create value for the customer. Prerequisite(s): Admission to a business major/junior standing, SCM 352. 3 credit(s)

**SCM 493 - Seminar in Supply Chain Management**

Selected topics in supply chain management including the value-adding elements of purchasing, operations, and logistics processes and collaboration strategies with suppliers and customers. Related topics include supplier and customer relationship management, global supply chain issues, supply chain sustainability and supply chain performance measurement. Prerequisite(s): Admission to a business major/junior standing, SCM 352. 3 credit(s)



# College of Education

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## **Purpose and Focus**

The College of Education is committed to creating an intellectual environment that promotes quality instruction, significant research, and professional service. Particular attention is focused on preparing professionals for changing educational contexts and on contributing to educational and pedagogical knowledge through scholarly endeavors. The college provides leadership in both the art and the science of educational practice. Furthermore, the college is committed to creating an inclusive learning environment that values and promotes diversity. Collaboration among students, faculty, other professionals, and community members is essential to the college in achieving its goals. The college encourages those who show intellectual promise, social responsibility, and the personal qualities suitable for work with children and youth to prepare for professions in teaching and human services.

## **Accreditation**

Northwest Commission on Colleges and Universities

## **Undergraduate Majors**

### **Department of Educational and Clinical Studies**

Early Childhood Education — Bachelor of Science  
Human Services — Bachelor of Science  
Special Education — Bachelor of Arts  
Special Education — Bachelor of Science

### **Department of Educational Psychology and Higher Education**

No Undergraduate Degrees Offered

### **Department of Teaching and Learning**

Elementary Education — Bachelor of Arts  
Elementary Education — Bachelor of Science  
Secondary Education — Bachelor of Arts  
Secondary Education — Bachelor of Science

## **Undergraduate Degree Minors**

Addictions Prevention  
Addictions Treatment  
Human Services  
Compulsive Gambling Counseling  
Special Education

## **Graduate Degree Programs**

Educational and Clinical Studies — Master of Education in Early Childhood Education, Master of Education in English Language Learning, Master of Education in School Counseling, Master of Education in Special Education, Master of Science in Mental Health Counseling, Doctor of Philosophy in Special Education, Juris Doctor/Doctor of Philosophy in Special Education\*

Teaching and Learning — Master of Education in Curriculum and Instruction, Master of Science in Curriculum and Instruction, Specialist in Education, Doctor of Education in Curriculum and Instruction, Doctor of Philosophy in Curriculum and Instruction, Doctor of Philosophy in Teacher Education, Doctor of Philosophy in Learning and Technology\*\*

Educational Psychology and Higher Education - Master of Science in Educational Psychology, Master of Education in Higher Education, Education Specialist in School Psychology, Doctor of Philosophy in

Educational Psychology, Doctor of Philosophy in Higher Education, Doctor of Philosophy in Learning and Technology\*\*, Juris Doctor/Doctor of Philosophy in Educational Psychology\*\*\*, Juris Doctor/Doctor of Philosophy in Higher Education\*\*\*

\*Offered as a joint degree through ECS and the Boyd School of Law

\*\*Offered as a joint degree through T&L & EPHE

\*\*\*Offered as a joint degree through EPHE and Boyd School of Law

## **Admission to the College (Undergraduate Programs)**

Minimum GPA: 2.75

**Admissions Policies:** Students with GPA of 2.75 can be admitted to the College of Education as pre-majors. Students are formally admitted to their major following completion of pre-major course(s) and other program requirements with a minimum overall 2.75 GPA and passing Praxis core Tests or PPST scores taken prior to November 1, 2013. Further information may be obtained from the College of Education Advising and Field Placement Center.

## **College Policies**

**Academic Policies:** A minimum UNLV cumulative GPA of 2.75 must be maintained to continue in the College of Education. Individual departments may have higher GPA requirements.

Students whose cumulative UNLV GPA falls below 2.75 will be subject to academic discipline (college probation or university suspension). Further information may be obtained from the College of Education Advising and Field Placement Center.

**PRAXIS II:** All undergraduate students in programs leading to teacher licensure must take the PRAXIS II and pass the appropriate test(s) in order to obtain a license with the Nevada State Department of Education. Although the PRAXIS II is not required for graduation, to ensure timely submission of the scores, students are strongly encouraged to take the test(s) one semester prior to student teaching. When completing the registration materials for the PRAXIS II, students must list UNLV (RA4861) and the Nevada State Department of Education (R8670) as score recipients. See an advisor in the College of Education Advising and Field Placement Center for more details.

**Student Teaching:** Student teaching is a full-time, full-semester carefully supervised experience. Through written agreements, university and school authorities are committed to providing quality field experiences for prospective teachers. An international student teaching option affords students the opportunity to explore teaching from a multicultural perspective.

Student teaching applications must be filed one semester prior to student teaching by the posted deadline. Applicants must meet all conditions specified by the appropriate academic department before they will be placed. Failure by the student teacher to meet any requirement may result in delay or cancellation of the supervised teaching assignment.

Any candidate for student teaching who has transferred to UNLV must fulfill all specific requirements and have completed at least 15 hours in residence, including nine credits in professional education courses. Additional courses as determined by the advisor

or the department chair may be required of the student. Verify with departments for possible alternative degree requirements.

**Scholarships:** Please refer to College/Departmental Scholarships in the Student Financial Services section of this catalog.

### ***Advisement***

Advising is provided by the College of Education Advising and Field Placement Center. Students are encouraged to seek advisement early in their academic programs to ensure efficient advancement through their program. All students are encouraged to see their advisors regularly; degree requirements and/or licensure requirements may change.

### ***Specialized Programs***

In addition to its traditional programs, the college provides programs intended to meet the needs of individuals who hold baccalaureate degrees in non-licensed areas and who wish to be licensed to teach. Additional information concerning these programs is available in the Teaching and Learning and Educational and Clinical Studies Department offices.

For complete information regarding individual departments, please refer to the UNLV web page, [www.unlv.edu](http://www.unlv.edu), and click on the College of Education.

#### **COE 102 - First Year Seminar**

Prepares students with skills and knowledge to promote academic success and retention. Major areas of focus include: inquiry and critical thinking skills, communication, global/multicultural awareness, intellectual and life-long learning perspectives, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers, overall college engagement, and improvement in academic skills. 2 credit(s)

## **Teaching and Learning**

### ***Purpose and Focus***

The Department of Teaching and Learning (T&L) holds as its central mission the preparation and development of educators at all levels. The department ensures that its professional education programs are based on essential knowledge, established and current research findings, and sound professional practice.

#### **Accreditation**

Northwest Commission on Colleges and Universities  
Academic Post-Baccalaureate Teacher Licensure Programs  
Administered by Teaching and Learning  
Graduate Licensure Program (PD-GLP) in Elementary Education or Secondary Education. For further information visit [tl.unlv.edu](http://tl.unlv.edu) or e-mail [jobita.bayuga@unlv.edu](mailto:jobita.bayuga@unlv.edu).

### ***Undergraduate Majors***

Elementary Education — Bachelor of Science in Education  
Elementary Education — Bachelor of Arts in Education  
Secondary Education — Bachelor of Science in Education  
Secondary Education — Bachelor of Arts in Education

### ***Secondary Education Major***

Secondary education majors must select, from the fields available, a major (first) teaching field (one of the secondary education areas of concentration) in which they wish to be licensed.

For the approved areas of concentration for the first teaching field (required) and the second teaching field (optional), see the departmental listing or academic advisor.

**Admission Policies:** Admission to the elementary education program requires completion of the University General Education Core requirements; completion of EDU 201, EDU 214E, and EPY 303; a minimum 2.75 cumulative GPA; and passing Praxis Core Tests or PPST scores taken prior to November 1, 2013. Applications for full admission can be found in the College of Education Advising and Field Placement Center.

Admission to the secondary education program requires completion of the University General Education Core requirements, completion of EDU 202, a minimum 2.75 cumulative GPA, and passing Praxis Core Tests or PPST scores taken prior to November 1, 2013. Applications for full admission can be found in the College of Education Advising and Field Placement Center.

### ***Advisement***

Program requirements and other relevant information are available in the College of Education Advising and Field Placement Center. Students are recommended to meet with an academic advisor every semester (appointment required). It is the responsibility of every student to maintain contact with advisors as changes in departmental policies, programs or licensure requirements may occur. Students are also responsible for all information in the UNLV Undergraduate Catalog.

### ***Department Policies***

**Academic Policies:** Students who are not in attendance the first day of class may be administratively dropped. Any substitution course(s) taken at another institution for a UNLV professional education course requirement must be approved on a substitution form (see the Advising and Field Placement Center).

**Field Experiences:** Elementary and secondary field experience courses require application, or fingerprinting, or both one semester prior to placement and daytime availability for experience in the public schools. Students will be expected to arrange their schedules accordingly. See the Advising and Field Placement Center for details.

### **Elementary Education (Grades K-8) Major - Bachelor of Science in Education (BSED)**

Please see the UNLV Department of Teaching and Learning web page at <http://tl.unlv.edu/undergraduate> for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Education Advising and Field Placement Center at <http://education.unlv.edu/afpf/>

#### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### **Learning Outcomes**

1. Plan learning experiences based on assessment analysis, content knowledge, curriculum standards, and digital tools to meet the needs of all learners.

2. Create and manage an effective learning environment conducive to positive social interactions recognizing individual differences related to culture, learning styles, levels of achievement and experiences.
3. Model professional dispositions as a foundation for professional practice and demonstrate ethical and collaborative advocacy for students and the teaching profession.
4. Consider students' prior knowledge in planning lessons, actively engage students in learning, make assessment an integral part of the lesson, and reflect on instruction and student achievement using assessment data.
5. Use data to inform instruction, make decisions about student learning and demonstrate that teaching behaviors produce verifiable student learning and informs future practice.
6. Incorporate digital tools to engage students, document student progress, and provide a digital record of professional growth as a teacher.

### University Graduation Requirements

- Please see Graduation Policies for complete information

#### Elementary Education (Grades K-8)

Degree Requirements.....Total: 120-123 Credits  
Completion of all program requirements will lead to eligibility for the Bachelor of Science degree in Education. To qualify for the Bachelor of Arts in Education, students must also complete two courses in the same foreign language.

Elementary Education students must earn a C or better in each UNLV and transfer course that applies to the Elementary Education program. This includes university core as well as education course work.

All elementary professional teacher education courses for initial licensure (including MATH 122 and MATH 123) must have been completed no more than five years prior to admission to T&L.

Student Teaching in Elementary Education Program:

Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of all program of study course requirements except EDEL 481, and EDEL 482, EDEL 483 or EDEL 485 with a grade point average of 2.75 or higher and no grade below C.
3. Filing of a completed T&L student teaching application by the announced deadline.
4. Recommendation of the Department of T&L.
5. Students who take EDEL 311 and do not receive a grade of "B" or better will not be able to enroll in EDEL 313. If a student does meet the "B" standard, they will be allowed to retake the course only one time; if they do not meet the standard the second time, they will be unable to complete the program.
6. Students who do not receive a grade of "B" or better in EDEL 313 will not be able to move on to EDEL 481, their internship. If a student does not meet the standard of "B" or better the second time they take EDEL 313, they will not be eligible to complete the program.

Student teaching is a full-time, full-semester experience in an elementary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as a preservice mentor teacher and by the assigned university site facilitator; and weekly student teaching seminar sessions or EDEL 405. Because student teaching is a

full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDEL 481 and EDEL 482, EDEL 483, or EDEL 485 without department approval.

General Education Requirements..... Subtotal: 45-48 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- COE 202 - Second-Year Seminar

Constitutions ..... Credits: 4-6

HIST 100 or PSC 101 (US & NV)

or

HIST 100, 106 or PUA 241 (US only)

and

HIST 102, 271 or PSC 100 (NV only)

Mathematics..... Credits: 6

- MATH 122 - Number Concepts for Elementary School Teachers

- MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers

Distribution Requirement ..... Credits: 24

Please see Distribution Requirement for more information.

(see note 1 below)

- Humanities and Fine Arts: 9 Credits

- COM 101 - Oral Communication

- One 3 credit Humanities course - History elective (HIST 217 recommended)

- One course in Fine Arts- 3 credits

- Social Science:

- Automatically satisfied by Major requirements

- Life and Physical Sciences and Analytical Thinking: 15 Credits

- Analytical Thinking

- PHIL 102 - Critical Thinking and Reasoning

- Life and Physical Sciences

- BIOL 100 - General Biology for Non-Majors

- GEOG 103 - Physical Geography of Earth's Environment and GEOG 104 - Physical Geography Laboratory

- .....CHEM 105 - Chemistry, Man, and Society and CHEM 106 - Beginning Chemistry Laboratory

- or PHYS 108 - Physics For A Better Environment and PHYS 108L - Physics for a Better Environment Laboratory

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BSED in Elementary Education (Grades K-8)... Subtotal: 72 credits

Education Core Requirements..... Credits: 12

Any of these courses may be taken prior to passing the PRAXIS CORE TESTS OR PRAXIS I TAKEN PRIOR TO NOVEMBER 1, 2013:

- EDU 280 - Valuing Cultural Diversity also fulfills multicultural requirement

- EPY 303 - Educational Psychology

- EPY 451 - Foundations of Educational Assessment

or, complete 3 1-credit offerings of:

- EDEL 405 - Curriculum and Assessment Elementary Education
- EDSP 411 - Students with Disabilities in General Education Settings

Elementary Program Requirements ..... Credits: 42

- EDU 201 - Introduction to Elementary Education
  - EDU 214E - Preparing Teachers to Use Technology
  - EDEL 331 - Teaching Elementary School Art
- or
- MUS 453 - Music Skills for Classroom Teachers
  - EDEL 323 - Teaching and Learning Elementary Education
  - EDEL 408 - Classroom Management Elementary Education
  - EDEL 433 - Teaching Elementary School Mathematics
  - EDEL 443 - Teaching Elementary School Science
  - EDEL 453 - Teaching Elementary School Social Studies
  - EDRL 401 - Children's Literature Elementary School Curriculum
  - EDRL 442 - Literacy Instruction I
  - EDRL 443 - Literacy Instruction II: Clinic-based
  - EDRL 471 - Language Acquisition, Development and Learning
  - TESL 474 - Methods for English Language Learners
  - PBH 424 - Teaching Elementary School Health

Field Experiences ..... Total Credits: 18

- EDEL 311 - Elementary Methods Practicum I
- EDEL 313 - Elementary Methods Practicum II

and

- EDEL 482 - Elementary Supervised Student Teaching Seminar

and complete 10 credits of:

- EDEL 481 - Elementary Supervised Student Teaching

or

- EDEL 483 - Elementary Supervised Teaching Internship

or

- EDEL 485 - Elementary Supervised Teaching Residency Student Electives..... Credits: 0-3

(see note 3 below)

Total Credits: ..... 120-123

## Notes

1. Please select a Humanities or Fine Arts elective to satisfy International requirement.
2. EDEL 443 requires the following 12 credits of science as prerequisites: BIOL 100, GEOG 103, and GEOG 104, and either CHEM 105 and CHEM 106.
3. Total degree credits will be 120-123 depending upon how student fulfills the Constitutions and First Year Seminar requirements.

## Secondary Education (Grades 7-12) Major - Bachelor of Science in Education

Please see the UNLV Department of Teaching and Learning web page at <http://tl.unlv.edu/undergraduate> for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV Advising & Field Placement Center at [education.unlv.edu/afp](http://education.unlv.edu/afp)

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Principle 1 (Content Knowledge): The COE graduate knows and understands the central concepts, tools of inquiry, and structures of the discipline(s) and creates learning experiences that make these aspects of content meaningful. They are passionate about their subjects and their work.
2. Principle 2 (Individual Development): The COE graduate knows and understands how individuals learn and can develop and provide opportunities that support intellectual, career, social, and personal development. They seek ways to enhance the success of their future students.
3. Principle 3 (Diverse Learners): The COE graduate knows and understands how individuals differ in their approaches to learning and creates opportunities that are equitable and adaptable to the needs of diverse learners. They demonstrate an understanding of the role that both individual and group identities play in teaching and learning.\*
4. Principle 4 (Planning Processes): The COE graduate understands planning processes based upon knowledge of content, learner characteristics, the community, and curriculum goals and standards. They are active participants in the local k-12 education system.
5. Principle 5 (Strategies and Methods): The COE graduate knows and understands and can employ a variety of strategies and methods and encourages the development of critical thinking, problem solving, decision-making, and performance skills. They create lessons that promote student achievement.
6. Principle 6 (Learning Environments): The COE graduate knows and understands individual and group motivation and behavior and creates a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation. They create enriched learning environments.
7. Principle 7 (Communication): The COE graduate knows and understands effective verbal, nonverbal, and media communication techniques and other forms of symbolic representation and can foster active inquiry, collaboration, and supporting interactions. They use technology to facilitate student learning.
8. Principle 8 (Assessments): The COE graduate understands and promotes formal and informal assessment strategies and evaluates the learner's continuous intellectual, social, and physical development. They develop fair assessments of student achievement.
9. Principle 9 (Collaboration, Ethics, and Relationships): The COE graduate understands and fosters ethical relationships with parents, school colleagues, and organizations in the larger community to support the individuals learning development. They build communication opportunities through trust and genuine regard for student personal and academic growth.
10. Principle 10 (Reflection and Professional Development): The COE graduate is a reflective practitioner who continually evaluates the effects of choices and actions on students, adults, parents, and other professionals in the learning community, and who actively seeks opportunities to grow professionally. They respond to the rapidly changing educational context of Southern Nevada in a thoughtful manner.

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Student Teaching in Secondary Education Program:



Applications for student teaching must be filed the semester preceding the student teaching semester. Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of at least 90 credits toward a bachelor's degree in secondary education with a grade point average of 2.75 or higher.
3. Completion of all professional education course requirements, with a grade point average of 2.75 or higher.
4. Completion of 75% of teaching field course work in which the student plans to student teach, with a grade point average of 2.75 or higher. The grade point average of 2.75 in the teaching field must be maintained through graduation.
5. Filing of a completed T&L student teaching application by the announced deadline.

6. Recommendation of the Department of Teaching & Learning.

Student teaching is a full-time, full-semester experience in a secondary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching, during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as a preservice mentor teacher and by the assigned university site facilitator; and weekly student teaching seminar sessions. Because student teaching is a full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDSC 482 and EDSC 481, EDSC 483, or EDSC 485 without department approval.

(see note 1 below)

#### Secondary Education (Grades 7-12)

Degree Requirements.....Total: 120-133 Credits

Completion of all program requirements will lead to eligibility for the Bachelor of Science degree in Education. To qualify for the Bachelor of Arts in Education, students must also complete two courses in the same foreign language. Secondary education majors must select a major (first) teaching field (approved area of concentration, e.g. English or mathematics) in which they wish to be licensed. A minor (second) teaching field is optional.

General Education Requirements..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

HIST 100 - Historical Issues and Contemporary Society or PSC 101 - Introduction to American Politics

Mathematics..... Credits: 3

Distribution Requirements ..... Credits: 18-19

Dependent on Teaching Field-see notes (2 and 3 below)

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BSEd in Secondary Education.....Subtotal: 84 Credits

Education Core Requirements..... Credits: 9

- EDU 280 - Valuing Cultural Diversity (fulfills multicultural requirement)
- EPY 303 - Educational Psychology
- EDSP 411 - Students with Disabilities in General Education Settings

Secondary Program Requirements..... Credits: 18

- EDU 202 - Introduction to Secondary Education
- EDU 214S - Preparing Teachers to Use Technology
- EDRL 451 - Content Area Literacy Instruction
- EDSC 323 - Teaching and Learning Secondary Education
- EDSC 408 - Classroom Management Secondary Education

and

One of the following subject method courses:

- EDSC 433 - Teaching Secondary English
- EDSC 443 - Teaching Secondary Foreign/Second Language
- EDSC 453 - Teaching Secondary Mathematics
- EDSC 463 - Teaching Secondary Science
- EDSC 473 - Teaching Secondary Social Studies

and

First Teaching Field (Required)

Approved areas of concentration - see Advising Center for a list of required courses for each are:

Biological Science .....42-45 Credits

Earth Science .....42-45 Credits

English (Comprehensive) .....48-52 Credits

General Science.....45-52 Credits

Mathematics.....39-52 credits

Physical Science .....45 Credits

Social Studies .....52 Credits

For music education, contact the Music Department

First Teaching Field..... Credits: 39-48

All secondary education students must fulfill requirements for a first teaching field.

Field Experiences ..... Credits: 18

- EDSC 311 - Secondary Methods Practicum I
- EDSC 313 - Secondary Methods Practicum II
- EDSC 482 - Secondary Supervised Student Teaching Seminar taken concurrently with
- EDSC 483 - Secondary Supervised Teaching Internship
- EDSC 481 - Secondary Supervised Student Teaching or EDSC 483 - Secondary Supervised Teaching Internship or
- EDSC 485 - Secondary Supervised Teaching Residency (10 credits)

Second Teaching Field (Optional)

(see note 4 below)

Approved areas of concentration - see Advising Center for a list of required courses for each area:

Biological Science .....28 Credits

Earth Science .....27 Credits

General Science.....28 Credits

Mathematics.....29 Credits

Physical Science .....27 Credits

Total Credits: .....120-133

(see note 1 below)

#### Notes

1. Total credits depend upon student's teaching field and choice of first year experience course.

2. Secondary Education majors pursuing the following first teaching fields fall under the Life and Physical Sciences and Analytical Thinking Distribution Area (must complete 9 credits of Social Sciences and 9 credits of Humanities & Fine Arts): Biology, Earth Science, General Science, Mathematics, and Physical Science.
3. Secondary Education majors pursuing the following first teaching fields fall under the Humanities and Fine Arts Distribution Area (must complete 10 credits of Life & Physical Sciences & Analytical Thinking and 9 credits of Social Sciences): English Comprehensive.
4. Students pursuing more than one teaching field may need to take additional subject methods course (s).

## Secondary Education (Grades 7-12) Major - BAEd

The requirements for each of the Bachelor of Arts in Education degrees are identical to the requirements for the Bachelor of Science in Education degrees in each of the fields with the exception that for the B.A., students must successfully complete two courses in the same foreign language.

Student Teaching in Secondary Education Program:

Applications for student teaching must be filed the semester preceding the student teaching semester. Approval for a student teaching placement is contingent upon:

1. Admission to T&L.
2. Completion of at least 90 credits toward a bachelor's degree in secondary education with a grade point average of 2.75 or higher.
3. Completion of all professional education course requirements, with a grade point average of 2.75 or higher.
4. Completion of 75 percent of teaching field course work in which the student plans to student teach, with a grade point average of 2.75 or higher. The grade point average of 2.75 in the teaching field must be maintained through graduation.
5. Filing of a completed T&L student teaching application by the announced deadline.
6. Recommendation of the Department of Teaching & Learning.

Student teaching is a full-time, full-semester experience in a secondary classroom. It involves a mandatory, on-campus orientation; observation and supervised teaching, during which the student gradually assumes classroom teaching responsibilities; regularly scheduled observations and evaluations by the classroom teacher who serves as cooperating teacher and by the assigned university supervisor; and weekly student teaching seminar sessions. Because student teaching is a full-time responsibility, outside employment during that time is strongly discouraged, and the student may enroll in no courses other than EDSC 482 and EDSC 481, 483, or 485 without department approval.

## Secondary Education Minor

A 2.75 GPA is required for this minor.

Courses Include .....Total Credits: 32-35

- EDU 202 - Introduction to Secondary Education
  - EPY 303 - Educational Psychology
  - EDSC 323 - Teaching and Learning Secondary Education
  - EDSC 408 - Classroom Management Secondary Education
  - EDSC 433 - Teaching Secondary English
- or
- EDSC 463 - Teaching Secondary Science
- or
- EDSC 453 - Teaching Secondary Mathematics

- EDSP 411 - Students with Disabilities in General Education Settings
- EDSC 311 - Secondary Methods Practicum I
- EDSC 313 - Secondary Methods Practicum II
- EDSC 482 - Secondary Supervised Student Teaching Seminar

## Certificate

### Secondary Teacher Certification: Chemistry

Students wishing to obtain teaching certification in chemistry should contact the College of Education Advising Center (CEB 144) for requirements.

### EDEL 311 - Elementary Methods Practicum I

Elementary school practicum I where students apply content acquired in methods courses to initial field-based experiences. Corequisite(s): Enrollment in methods courses specified by the department. Prerequisite(s): Admission to Elementary Education Program. May be repeated to a maximum of nine credits. 3 credit(s)

### EDEL 313 - Elementary Methods Practicum II

Elementary school practicum II where students apply content acquired in methods courses to advanced field-based experiences. Corequisite(s): Enrollment in methods courses specified by the department. Prerequisite(s): EDEL 311 with a B or better. May be repeated to a maximum of nine credits. 3 credit(s)

### EDEL 323 - Teaching and Learning Elementary Education

Current research-based practices in classroom communication skills, delivery of instruction, questioning techniques, lesson design, and behavior management. Corequisite(s): Enrollment in EDEL 311. Prerequisite(s): Admission to Elementary Education Program. 3 credit(s)

### EDEL 331 - Teaching Elementary School Art

Techniques of handling art media, finger paint, clay, easel paint, chalk, and water colors. Scheduled observations in the public schools. Prerequisite(s): EDU 201 or EDU 202 and passing PPST scores. 3 credit(s)

### EDEL 405 - Curriculum and Assessment Elementary Education

Introduces standards and resources of elementary school curriculum and assessment and supports students to develop, implement, and assess instructional units developed in school contexts using curriculum standards, student learning, and school resources. Prerequisite(s): EDU 280. 1-3 credit(s)

### EDEL 408 - Classroom Management Elementary Education

Introduction to management of the elementary classroom by surveying literature in supervising psychosocial environment, physical environment, curriculum implementation, fundamentals of classroom control, discipline, and monitoring of student learning. Prerequisite(s): EDEL 323, admission to Elementary Education Program and completion of EDEL 311. 3 credit(s)

### EDEL 431 - Standards-Based Curriculum Elementary Mathematics

Elementary mathematics curriculum standards as outlined by national organizations and state agencies. Emphasis on determining expectations locally, regionally, and nationally and on teachers' knowledge of theoretical bases of elementary school mathematics pedagogy. Prerequisite(s): EDU 201 and consent of instructor. 3 credit(s)

### EDEL 433 - Teaching Elementary School Mathematics

Current methods and materials for teaching elementary school mathematics including review of content, objectives, curriculum, and assessment for developmentally appropriate instructional practices. Corequisite(s): Enrollment in a practicum. Prerequisite(s): MATH 122 and MATH 123 and admission to Elementary Education Program. 3 credit(s)

**EDEL 443 - Teaching Elementary School Science**

Formerly Listed as ICE 455. Current methods and materials for teaching life, physical, and earth sciences using process skills, guided discovery activities, and curriculum integration techniques. Corequisite(s): Enrollment in a practicum. Prerequisite(s): BIOL 100, GEOG 103, ( CHEM 105 and CHEM 106 ) or ( PHYS 108 and PHYS 108L ). 3 credit(s)

**EDEL 453 - Teaching Elementary School Social Studies**

Formerly Listed as ICE 458. Current methods and materials for teaching social studies. Corequisite(s): Enrollment in a practicum. Prerequisite(s): Admission to the Elementary Education Program. 3 credit(s)

**EDEL 481 - Elementary Supervised Student Teaching**

Prerequisite(s): EDEL 313 with a B or better.. 1-16 credit(s)

**EDEL 482 - Elementary Supervised Student Teaching Seminar**

Corequisite(s): EDEL 481. 2 credit(s)

**EDEL 483 - Elementary Supervised Teaching Internship**

1-16 credit(s)

**EDEL 484 - Elementary Supervised Internship Seminar**

Corequisite(s): EDEL 483. 2 credit(s)

**EDEL 485 - Elementary Supervised Teaching Residency Student**

1-16 credit(s)

**EDEL 486 - Elementary Supervised Residency Seminar**

Corequisite(s): EDEL 485. 2 credit(s)

**EDEL 493 - Elementary Education Independent Study**

Specialized instruction in elementary education designed to develop in-depth understanding of a current educational trends and issues. Prerequisite(s): Consent of instructor. May be repeated. Note(s): Maximum of six credits from independent study courses accepted toward a degree. 1-6 credit(s)

**EDEL 495 - Elementary Education Topics:**

Specialized instruction in elementary education designed to develop in-depth understanding of current educational topics. Prerequisite(s): Consent of instructor. May be repeated. Note(s): Maximum of six credits from education topics courses accepted toward a degree. 1-6 credit(s)

**Education Middle School****EDMS 453 - Teaching Middle School Mathematics**

Planning and teaching mathematics lessons for students in grades 5-8 consistent with NCTM's "Standards" and the Nevada Mathematics Standard. Corequisite(s): EDSC 311 or EDSC 313. Prerequisite(s): Completion of twenty-four credit hours of mathematics. 3 credit(s)

**Education Reading and Language****EDRL 301 - Literacy Survey**

Processes involved in literacy learning and associated terminology from historical, psychological, and sociological perspectives. Prerequisite(s): EDU 201. 3 credit(s)

**EDRL 401 - Children's Literature Elementary School Curriculum**

Exposes teacher candidates to a wide range of children's literature and develops knowledge for selecting and sharing quality children's literature in the elementary classroom. Focuses on the role that children's literature plays in the elementary curriculum. Prerequisite(s): Admission to the Elementary Education program or admission to the Early Childhood Education program. 3 credit(s)

**EDRL 402 - Literature for Young Adults**

Acquaintance with and critical analysis of literature and other instructional materials in all subject areas. Prerequisite(s): EDU 201 or EDU 202. 3 credit(s)

**EDRL 405 - Teaching Literature Secondary Schools**

Emphasizes current theories of teaching and learning of literature, explores integration of minority literature, examines teaching of literary genres, and promotes student-centered literature curriculum. Corequisite(s): Enrollment in a practicum. Prerequisite(s): Junior standing and completion of 24 credits hours in English content. 3 credit(s)

**EDRL 411 - Teaching Language Arts Elementary Schools**

Current methods and materials for teaching language arts including oral language development, speaking and listening, written expression, spelling, and handwriting. Corequisite(s): EDEL 311 or EDEL 313. Prerequisite(s): Admission to Elementary Education Program. 3 credit(s)

**EDRL 425 - Teaching Writing Secondary Schools**

Emphasizes current theories of writing, explores writing processes, examines teaching of writing, and promotes process of writing themes about literature. Corequisite(s): Enrollment in a practicum. Prerequisite(s): Junior standing, ENG 411A and ENG 411B. 3 credit(s)

**EDRL 437 - Teaching Reading**

Current methods and materials for teaching from kindergarten through high school. Intended for special education majors. Prerequisite(s): EDU 203. 3 credit(s)

**EDRL 442 - Literacy Instruction I**

Methods of instruction and assessment for primary grade readers and writers. Designed to help teacher candidates acquire knowledge and strategies related to literacy development and engagement through classroom application, reflection, analysis, and implementation of lessons with diverse learners. Corequisite(s): Concurrent enrollment in a practicum. Prerequisite(s): Admission to Elementary Education Program. 3 credit(s)

**EDRL 443 - Literacy Instruction II: Clinic-based**

Methods of instruction and assessment for intermediate grade readers and writers. Designed to help teacher candidates acquire knowledge and strategies related to literacy development and engagement through classroom application, reflection, analysis, and implementation of lessons with diverse learners through tutoring. Corequisite(s): Concurrent enrollment in a practicum. Prerequisite(s): EDRL 442. 3 credit(s)

**EDRL 451 - Content Area Literacy Instruction**

Strategies for developing comprehension and critical reading/writing in content areas for intermediate through high school grades. Prerequisite(s): Admission to the Secondary Education Program and EDU 202 and PPST scores. 3 credit(s)

**EDRL 461 - Diagnosis Assessment and Instruction Literacy**

Survey of diagnostic-prescriptive techniques and materials for use with disabled readers. Prerequisite(s): EDRL 437. 3 credit(s)

**EDRL 469 - Literacy Practicum**

Supervised experience in teaching reading in either a one-on-one or small group setting. Experiences include assessment and implementation of appropriate instruction. Prerequisite(s): EDRL 461. 3 credit(s)

**EDRL 471 - Language Acquisition, Development and Learning**

Contemporary philosophies of second language acquisition, with selected topics related to language use and ideology. Prerequisite(s): EDU 201 or EDU 203 and passing PPST scores. 3 credit(s)

**Education Secondary****EDSC 311 - Secondary Methods Practicum I**

Supervised field experience in a secondary classroom. Students work in middle-level or high school classrooms to develop skills working with students and implementing instructional plans. Corequisite(s): EDSC 323. Prerequisite(s): EDU 202. May be repeated to a maximum of six credits. 1-3 credit(s)



**EDSC 313 - Secondary Methods Practicum II**

Students work in a secondary classroom with a teacher to implement lessons planned in subject matter methods. Students have the opportunity, with supervision, to manage classrooms and to implement instructional plans. Course taken the semester prior to student teaching. Corequisite(s): Current enrollment with subject matter methods. Prerequisite(s): EDSC 311 with a B or better.. May be repeated to a maximum of six credits. 1-3 credit(s)

**EDSC 323 - Teaching and Learning Secondary Education**

Develops prospective teachers' understanding of and abilities in effective instructional planning and techniques. Decision making, learning principles, course strategies, planning schemes, instructional tactics, class pacing, and student evaluation investigated. Participation in micro-peer teaching required. Corequisite(s): EDSC 311. 3 credit(s)

**EDSC 408 - Classroom Management Secondary Education**

Develops prospective teachers' understanding of effective classroom management techniques and management programs. Students develop, examine and evaluate a teaching rationale, philosophy, management style and learning style. Topics include school and classroom climates and motivation. Students construct their management scheme and explore problem solving, effective communication and conflict resolution. Prerequisite(s): EDU 202, EPY 303 and admission to Secondary Education Program. 3 credit(s)

**EDSC 413A - Teaching Secondary Arts: Art**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment. Corequisite(s): EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 413T - Teaching Secondary Arts: Theatre**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 433 - Teaching Secondary English**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies, and approached to assessment unique to the specialized area; curriculum; classroom organization; and use of technology. Corequisite(s): EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 443 - Teaching Secondary Foreign/Second Language**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment. Corequisite(s): EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 453 - Teaching Secondary Mathematics**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment. Corequisite(s): EDSC 311 or EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 459 - Technology Applications Secondary Mathematics**

Overview of computer- and calculator-based applications in secondary mathematics and science education. Topics include evaluation and selection of educational software, spreadsheets, teacher tools, graphics, telecommunications, computer-based multimedia, calculators, and calculator-based laboratories and probes. Prerequisite(s): EDU 202. 2 credit(s)

**EDSC 463 - Teaching Secondary Science**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of technology. Corequisite(s): EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 469 - Technology Applications Secondary Science**

Overview of computer- and calculator-based applications in secondary science education. Topics include evaluation and selection of educational software, spreadsheets, teacher tools, graphics, telecommunications, computer-based multimedia, calculators, and calculator-based laboratories and probes. Prerequisite(s): EDU 202. 2 credit(s)

**EDSC 473 - Teaching Secondary Social Studies**

Students must have completed or be currently enrolled in courses to complete three-fourths of the course work in their respective teaching fields. Methods, materials, teaching techniques and strategies unique to the specialized area; curriculum; classroom organization; test construction/evaluation, use of audio-visual materials and equipment. Corequisite(s): EDSC 313. Prerequisite(s): EDU 202, EDSC 323, EPY 303, EPY 451. 3 credit(s)

**EDSC 481 - Secondary Supervised Student Teaching**

Full time teaching as a teacher candidate in a secondary school related directly to the program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 482. Prerequisite(s): EDSC 313 with a B or better. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

**EDSC 482 - Secondary Supervised Student Teaching Seminar**

Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel. Corequisite(s): EDSC 481, EDSC 481A, or EDSC 481B. 1-3 credit(s)

**EDSC 483 - Secondary Supervised Teaching Internship**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 484. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

**EDSC 483A - Secondary Supervised Teaching Internship: Major Field**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 484. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

**EDSC 483B - Secondary Supervised Student Teaching Internship: Minor Field**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 484. Prerequisite(s): See



Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

### **EDSC 484 - Secondary Supervised Internship Seminar**

Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel. Corequisite(s): EDSC 483, EDSC 483A, or EDSC 483B. 1-3 credit(s)

### **EDSC 485 - Secondary Supervised Teaching Residency**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

#### **EDSC 485A - Secondary Supervised Teaching Residency: Major Field**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 486. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

#### **EDSC 485B - Secondary Supervised Teaching Residency: Minor Field**

Full time teaching as a teacher candidate in a secondary school related directly to the student's program of study teaching field(s). Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school for a total of 12-16 credits. Corequisite(s): EDSC 486. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. May be repeated. Note(s): Letter grade only. 1-16 credit(s)

### **EDSC 486 - Secondary Supervised Residency Seminar**

Secondary teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide 1) support for correlating professional education courses to actual classroom teaching experiences, 2) reflective opportunities for self-assessment of teaching competencies, and 3) systematic connections between university and school district supervisory personnel. Corequisite(s): EDSC 485, EDSC 485A or EDSC 485B. Prerequisite(s): See Student Teaching in the College of Education section and Student Teaching in the Secondary Education section of this catalog for specific prerequisites. 1-3 credit(s)

### **EDSC 493 - Secondary Education Independent Study**

Independent study instruction in secondary education designed to develop in-depth understanding of current educational trends and issues. Maximum of six credits from independent study courses accepted toward a degree. May be repeated. 1-6 credit(s)

### **EDSC 495 - Secondary Education Topics:**

Specialized instruction in secondary education designed to develop in-depth understanding of current educational topics. Maximum of six credits from education topics courses accepted toward a degree. May be repeated. 1-6 credit(s)

## **Education**

### **EDU 201 - Introduction to Elementary Education**

Overview of teaching as a professional career for prospective elementary school teachers. Requires 25 hours of structured/guided observation and non-teaching tasks in an elementary school under the supervision of an experienced teacher and/or guided observations using videos and group on-site school observations. Prerequisite(s): ENG 102. 3 credit(s)

### **EDU 202 - Introduction to Secondary Education**

Engages pre-service teacher candidates in self-assessment, examination of personal and practical models of teaching, and experiences related to complexities of contemporary secondary school. Current issues and multicultural, social, and psychological foundations emphasized. Requires up to 25 hours of field experiences and/or guided video observation. Prerequisite(s): ENG 102. 3 credit(s)

### **EDU 203 - Introduction to Special Education**

Survey of the characteristics, training, and educational needs of students with disabilities and gifts and talents. Designed for undergraduate students in special education, general education, nursing, counseling, psychology, and related fields. Prerequisite(s): Prerequisite to all subsequent courses in special education. 3 credit(s)

### **EDU 210 - Nevada School Law**

Constitutional provisions and legislative enactments regarding state and local school matters. Does not satisfy the university's Constitutions requirement. Prerequisite(s): Sophomore standing. 2 credit(s)

### **EDU 214E - Preparing Teachers to Use Technology**

Addresses key technology hardware, software, web-based tools, and instructional practices in schools with a focus on developing teacher candidates' knowledge, skills, and strategies for integrating information technology into the classroom. EDU 214E is for elementary; 214S is for secondary. 3 credit(s)

### **EDU 214S - Preparing Teachers to Use Technology**

Addresses key technology hardware, software, web-based tools, and instructional practices in schools with a focus on developing teacher candidates' knowledge, skills, and strategies for integrating information technology into the classroom. EDU 214E is for elementary; 214S is for secondary. 3 credit(s)

### **EDU 280 - Valuing Cultural Diversity**

Introduces pre-service educators to micro-cultures which may include class, ethnicity, gender, exceptionalities, religion, language, and age. Culturally appropriate pedagogical practices, dimensions of multicultural education, and educational implications of diversity emphasized. Prerequisite(s): ENG 102. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

## **Education Leadership**

### **EDUC 495 - Education Topics:**

Seminar taught by various College of Education faculty members. Topics might include multicultural education, exceptional children, consultation skills for teachers, or other topics as appropriate. Prerequisite(s): EDU 201 or EDU 202. May be repeated to a maximum of nine credits. 1-3 credit(s)

## **Career and Technical Education**

### **EDCT 230 - Introduction to Career and Technical Education**

Introduction to foundation and history of workforce education and development and its evolution. Discussion of history of work and career and technical education which includes class organization and management, advisory committees, funding and legislation, alternative learning environments and work experience. Prerequisite(s): Contemporary issues also discussed. 3 credit(s)

### **EDCT 471 - Career and Technical Student Organizations**

Introduces career and technical teachers to all aspects of career and technical education youth organizations, thus providing them with a broad background for integrating these concepts and principles into their classroom instruction. Prerequisite(s): EDCT 230. 3 credit(s)

# Educational Psychology and Higher Education

## ***Purpose and Focus***

The Department of Educational Psychology and Higher Education offers programs leading to the Master of Science in Educational Psychology, Master of Education in Higher Education, Educational Specialist in School Psychology, a Ph.D. in Learning and Technology, a Ph.D. in Higher Education, and a Ph.D. in Educational Psychology, with strands in evaluation and assessment, school psychology, and content area emphasis. The department offers numerous courses required of students obtaining both undergraduate and graduate degrees from other units within the College of Education and across campus. Persons interested in pursuing a graduate degree in educational psychology, higher education, or school psychology should contact the department chairperson at 895-3253.

## ***Accreditation***

Northwest Commission on Colleges and Universities  
Council for Accreditation of Counseling and Related Educational Programs  
National Association of School Psychologists

## ***Graduate Degree Programs***

Higher Education — Master of Education, Ph.D.  
Educational Psychology — Master of Science, Ph.D. in Foundations,  
Ph.D. in Learning & Technology  
School Psychology — Educational Specialist, Ph.D. strand in  
Foundations  
There are no undergraduate degrees offered by this department.

### **EPY 101 - First-Year Seminar**

Provides first-year students with skills and knowledge to promote academic retention. Major areas of focus include: inquiry and critical thinking skills, communication, global/multicultural awareness, intellectual and life-long learning perspectives, and citizenship and ethics. Anticipated outcomes are: connections with faculty and peers/others, and overall college engagement and improvement in academic skills. 3 credit(s)

### **EPY 102 - Applied Creativity**

Provides learners with the knowledge, tools, and techniques to enhance creative applications in problem solving. 3 credit(s)

### **EPY 150 - Strategies for Academic Success**

Emphasis on acquisition of learning strategies and study skills for success in college courses. Topics include lecture learning and note-taking, text and reading comprehension strategies, principles of learning and memory, time management, test taking skills, basic essay construction, and motivation. Applies strategies in student-chosen, concurrently enrolled class. 3 credit(s)

### **EPY 250 - Strategies for Academic Success**

Emphasis on acquisition of learning strategies and study skills for success in college courses. Topics include lecture learning and note-taking, text and reading comprehension strategies, principles of learning and memory, time management, test taking skills, basic essay construction, and motivation. Applies strategies in student-chosen, concurrently enrolled class. 3 credit(s)

### **EPY 303 - Educational Psychology**

General principles, theories, and recent research evidence regarding human development, human learning and human motivation, especially as they pertain to classroom instruction. Prerequisite(s): Acceptance into COE and completion of a minimum of 33 credits. 3 credit(s)

### **EPY 451 - Foundations of Educational Assessment**

Introduction to testing, measurement, and evaluation related to instructional problems, construction and use of teacher-made tests, survey of standardized tests, test interpretation, and basic statistical procedures. Prerequisite(s): Completion of or concurrent enrollment in EPY 303 and junior-level standing. 3 credit(s)

### **EPY 452 - Counseling/Consultation Skills for Classroom Teachers**

Human relations development skills for use in the classroom setting, with emphasis on parent-school relations and parent conferences. Meets certification requirements for pre-service teachers. Section A for prospective elementary teachers; Section B for prospective secondary teachers. Prerequisite(s): Completion or concurrent enrollment in EPY 303. 1 credit(s)

### **EPY 499 - Special Topics in School Counseling and Human Development Services**

Specialized instruction in counseling and human development services concerned with specific problem areas or specific approaches to counseling and delivery systems. Specific topics designed to help students develop in-depth understanding of particular topic or issue. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

# Educational and Clinical Studies

## ***Purpose and Focus***

### **Early Childhood Education**

The Bachelor of Science in Ed provides a comprehensive contemporary program of teacher preparation for early childhood settings (e.g., daycare, preschool education, PreK-2nd grade, agencies, infant/toddler education, hospitals, community education programs and early intention programs). The program is designed to provide skills, content and application knowledge to assist students in becoming leaders in the field of early childhood education.

### **Human Services**

The Bachelor of Science degree in Human Services provides students with the knowledge and skills necessary to work in a wide variety of human services settings. Drawing from the knowledge base of the social sciences, this applied program helps students develop knowledge and skill in counseling-related, therapeutic, teaching, human services, supportive and preventive methods. Students acquire knowledge of the dynamics operating within the individual, couples, families, and larger social systems and multi-cultural contexts.

### **Special Education**

The Bachelor of Science degree in Human Services provides students with general training in human services and assists with pre professional counseling skills. Drawing from the knowledge base of the social sciences, the program helps students develop a variety of therapeutic, teaching, counseling, communication, supportive, and preventive methods. Students acquire knowledge of the dynamics operating within the individual, family, and larger social systems. The program has applied emphasis that will enable the graduate to listen therapeutically; problem solve; help implement and support mental health programs; develop social skills programs; and help those who are disadvantaged, impaired, or needing to develop interpersonal skills. Graduates will be able to work in a wide range of settings that involve helping others.

### **Accreditation**

National Council for the Accreditation of Teacher Education  
Northwest Commission on Colleges and Universities  
Council for Accreditation of Counseling and Related Educational Programs

### **Undergraduate Majors**

Early Childhood Education — Bachelor of Science  
Human Services — Bachelor of Science  
Special Education — Bachelor of Arts in Education  
Special Education — Bachelor of Science in Education

### **Certification and Licensure Programs**

Generalist Endorsement Certificate/Teaching License: Students will be qualified for certification by the Nevada State Department of Education to work with children in a special education resource room setting, a self-contained classroom working with students with learning disabilities, and a self-contained classroom with students with emotional and behavioral disabilities (kindergarten through 12th grade).

Early Childhood Education Certificate/Teaching License: Students will be qualified for certification by the Nevada state Department of Education to work with children birth through second grade.

### **Admission to the Major**

Minimum 2.75 GPA

### **Academic Policies:**

***Early Childhood*** – All students beginning their preparation leading to the Bachelor's Degree and teaching licensure must be admitted into the Division of Teacher Education before being admitted to the department.

***Human Services*** - Students with a 2.75 GPA may declare Human Services as a pre-major at any time. Students are formally admitted to the program upon completion of 60 college credits; completion of CED 117, 200, 300, 315 with a grade of B or better; and a 2.75 GPA. Applications for admission are available at the College of Education Advising and Field Placement Center.

***Special Education*** - All students beginning their preparation leading to the Bachelor's Degree and teaching licensure must be admitted into the Division of Teacher Education before being admitted to the department.

### **Departmental Policies**

Human Services: Human Services pre-major courses (CED 117, 200, 300, 315) must be completed with a grade of B or better. The major requirements, including restricted electives, must be completed with a grade of C or better. During the senior year, students must complete a two-semester fieldwork sequence. This placement must be approved by the department fieldwork coordinator prior to beginning fieldwork. The student's grade will be determined by the fieldwork instructor with input from the fieldwork supervisor.

### **Teacher Division Requirements**

No studies beyond EDU 203, EDSP 441, and EDSP 401 will be permitted within the College of Education until the student has met all Teacher Division requirements below:

1. Completion of 24 credit hours at UNLV at time of application.
2. Grade point average of 2.75 or above.
3. Students must take and pass all three parts of the Pre-Professional Skills Test (PPST).

Additional requirements include:

1. Students must earn a B or better in EDSP 481 to continue to take course work in the department. Students may repeat this course one time. If the student does not achieve a B or better the second time, the student will not be allowed to proceed forward in the department.
2. Students must earn a B or better in EDSP 488, EDSP 487, and EDSP 466 to be advanced to student teaching.

### **Transfer Policies**

Any candidate for student teaching who has transferred to UNLV must fulfill all specific requirements and have completed at least 15 hours in residence, including nine credits in professional education courses. Additional courses, as determined by the advisor or the department chair, may be required of the student.

### Department Requirements for Early Childhood Majors:

The following requirements must have been met before a student will be assigned to student teach:

1. Applications for student teaching must be filed by specific deadline dates no later than one semester preceding student teaching. See the College of Education Advising and Field Placement Center for details.
2. Formal admission to the department and successful completion of the PPST.
3. Completion of all baccalaureate course work, with a GPA of 2.75 or higher in all courses.

### Department Requirement for Special Education Major:

The following requirements must have been met before a student will be assigned to student teach:

1. Applications for student teaching must be filed by specific deadline date no later than one semester preceding students teaching. See the College of Education Advising and Field Placement Center for details.
2. Formal admission to the department and successful completion of the PPST.
3. Completion of all baccalaureate course work with a GPA of 2.75 or higher in all courses.

### Adademic Requirements

A GPA of 2.75 must be maintained for admission and to continue in the teacher education program. Those whose cumulative UNLV GPA falls below 2.75 will be placed on either college probation or college university suspension. Should the student fail to meet minimal academic standards and be suspended, a petition for readmission must be filed with the Chair of the College Subcommittee on Academic Standards and will be reviewed by the college dean.

### Advisement

Upon acceptance in the college, each student is required to meet with an advisor from the College of Education Advising and Field Placement Center (895-1537). Students should meet with their advisor prior to each semester they are taking classes. The department has developed a schedule when classes will be offered and some may not be offered every year. Meeting with an advisor will ensure the student stays on track and can graduate in a timely manner.

### Early Childhood Education Major- Bachelor of Science (BS)

Please see the UNLV College of Education web page at <http://education.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Education Advising and Field Placement Center at <http://education.unlv.edu/afp/>

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Objectives

1. The Early Childhood Education graduate is learning about the central concepts, tools of inquiry, and structures of the discipline(s) and is learning to create learning experiences that make these aspects of content meaningful.

2. The Early Childhood Education graduate is learning about how individuals learn and how to develop and provide opportunities that support intellectual, career, social, and personal development.
3. The Early Childhood Education graduate is learning about how individuals differ in their approaches to learning and how to create opportunities that are equitable and adaptable to the needs of diverse learners.
4. The Early Childhood Education graduate is learning about planning processes based upon knowledge of content, learners characteristics, the community, and curriculum goals and standards.
5. The Early Childhood Education graduate is learning about how to employ a variety of strategies and methods and encourages the development of critical thinking, problem solving, decision-making, and performance skills.
6. The Early Childhood Education graduate is learning about individual and group motivation and behavior and how to create a learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.

### University Graduation Requirements

- Please see Graduation Policies for complete information

#### Early Childhood Education

Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 37-40 credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics..... Credits: 3

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - Two courses from life and physical sciences category; at least one must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural requirement - EDU 280

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Early Childhood Education..... Subtotal: 67-71

ECE Core..... Credits: 58-62

(see note 3 below)

- ECE 250 - Orientation to Early Childhood Education
- ECE 251 - Curriculum in Early Childhood Education
- ECE 252 - Infant/Toddler Curriculum
- ECE 299 - Practicum for Infants/Toddlers



- ECE 431 - Teaching Communications Skills to Young Children
- ECE 441 - Play Theory, Creativity, and Aesthetics in Early Childhood Education
- ECE 453 - Methods for Early Childhood Education I: Social Sciences
- ECE 454 - Methods in Early Childhood Education II: Math and Science
- ECE 456 - Positive Discipline in Early Childhood Programs
- ECE 457 - Working with Families in Early Childhood Education
- ECE 483 - Pre-Student Teaching in Early Childhood Education
- ECE 491 - Student Teaching in Early Childhood Education
- ECE 492 - Student Teaching Seminar in Early Childhood Education
- EDRL 401 - Children's Literature Elementary School Curriculum
- EDSP 471 - Introduction to Early Childhood Special Education
- EDSP 473 - Developmental Assessment in Early Childhood Special Education
- EDSP 474 - Curriculum Development in Early Childhood Special Education
- EDSP 475 - Strategies for Teaching Young Children with Disabilities

### Optional Elective

- EDSP 423 - Collaboration and Consultation in Special Education Education Core Requirements..... Credits: 9
- EPY 303 - Educational Psychology
- EDU 214E - Preparing Teachers to Use Technology
- EDU 280 - Valuing Cultural Diversity

Electives.....Credits: 4-16

Total Credits: ..... 120

ECE Core (Administrative/Non-Licensure Track) ..... Credits: 57-60 (see note 4 below)

- ECE 250 - Orientation to Early Childhood Education
- ECE 251 - Curriculum in Early Childhood Education
- ECE 252 - Infant/Toddler Curriculum
- ECE 299 - Practicum for Infants/Toddlers
- ECE 431 - Teaching Communications Skills to Young Children
- ECE 441 - Play Theory, Creativity, and Aesthetics in Early Childhood Education
- ECE 453 - Methods for Early Childhood Education I: Social Sciences
- ECE 454 - Methods in Early Childhood Education II: Math and Science
- ECE 456 - Positive Discipline in Early Childhood Programs
- ECE 457 - Working with Families in Early Childhood Education
- ECE 461 - Early Childhood Education Management
- ECE 481 - Internship in Early Childhood Education Management/Administration
- ECE 482 - Preschool Fieldwork in Early Childhood Education
- EDSP 471 - Introduction to Early Childhood Special Education
- EDSP 473 - Developmental Assessment in Early Childhood Special Education
- EDSP 474 - Curriculum Development in Early Childhood Special Education
- EDSP 475 - Strategies for Teaching Young Children with Disabilities
- EDRL 401 - Children's Literature Elementary School Curriculum

### Optional Elective

- EDSP 423 - Collaboration and Consultation in Special Education Electives.....Total Credits: 11-17
- Total Credits: ..... 120

### Notes

1. A candidate for the Bachelor of Science degree in Education must earn a minimum of 120 semester hours with 40 credits in upper-division courses.
2. A minimum GPA of 2.75 for all courses attempted must be maintained.
3. ECE 491 and ECE 492 can be repeated up to 12 credits.
4. ECE 481 and ECE 482 can be repeated up to 12 credits.

### Human Services Major- Bachelor of Science (BS)

Please see the UNLV College of Education Human Services web page at [http://education.unlv.edu/ecs/undergraduate/human\\_services.html](http://education.unlv.edu/ecs/undergraduate/human_services.html) for information about the program, it's faculty and facilities.

Please see advising information at the UNLV College of Education Advising and Field Placement Center at <http://education.unlv.edu/afp/>

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Objectives

1. Demonstrate knowledge of an array of theoretical and applied counseling theories.
2. Demonstrate basic counseling skills sufficient to conduct entry - level human services interventions.
3. Demonstrate an ability to form helping relationships in accordance with principles of sound counseling practice.
4. Demonstrate an ability to understand, research, and critique professional literature in counseling.
5. Deliver professional services within the guidelines of ethical and professional practice standards.
6. Demonstrate an appreciation of multicultural differences and the needs of diverse\clients.
7. Demonstrate the ability to communicate orally and/or in writing with helping professionals

### University Graduation Requirements

- Please see Graduation Policies for complete information
  - Human Services Degree Requirements..... Total: 120 Credits
  - General Education Requirements..... Subtotal: 37-40 Credits
  - First-Year Seminar ..... Credits: 2-3
  - English Composition ..... Credits: 6
  - ENG 101 - Composition I
  - ENG 102 - Composition II
  - Second-Year Seminar ..... Credits: 3
  - Constitutions ..... Credits: 4-6
  - Mathematics..... Credits: 3
  - Distribution Requirements ..... Credits: 19
- Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - Two courses from life and physical sciences category; at least one must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

## Multicultural and International

(see note 1 below)

EDU 280 fulfills the multicultural requirement

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Human Services .....Subtotal 42 Credits  
(see note 2 below)

- CED 117 - Interpersonal Skills in Human Services
- CED 200 - Multicultural Issues of Counseling
- CED 300 - Introduction to Human Services Counseling
- CED 310 - Relationships Across the Lifespan
- CED 315 - Counseling Skills in Human Services
- CED 320 - Drugs and Behavior
- CED 325 - Mental Health and the Human Services Profession
- CED 375 - Ethical and Professional Issues in Human Services
- CED 400 - Field Experience in Human Services I
- CED 401 - Field Experience in Human Services II
- CED 465 - Case and Resource Management in Human Services
- CRJ 301 - Research Methods in Criminal Justice
- MFT 350 - Human Sexuality
- PUA 241 - Survey of Public Administration

Restrictive Electives ..... Credits: 15

Electives..... Credits: 23-25

(see note 3 below)

Total Credits: ..... 120

## Notes

1. CED 200 also fulfills the multicultural requirement of the general education core. Courses satisfying the international requirement may simultaneously fulfill another requirement.
2. A total of 42 credits must be 300/400 level courses.
3. Hours taken as part of a minor may count toward Human Services electives.

## Special Education Major (BAEd)

The requirements for the Bachelor of Arts in Education degree are identical to the requirements for the Bachelor of Science in Education degree with the exception that for the B.A., students must successfully complete two courses in the same foreign language.

Special Education Major (BSEd)

## Special Education Major - Bachelor of Science in Education

Please see the UNLV Department of Educational & Clinical Studies web page at [education.unlv.edu/ecs/about.html](http://education.unlv.edu/ecs/about.html) for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV Advising & Field Placement Center at [education.unlv.edu/afp](http://education.unlv.edu/afp)

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Knowledge of the central concepts, tools of inquiry, and structures of the discipline as well as the creation of learning experiences that make these aspects of content meaningful. [CEC Philosophical, Historical, and Legal Foundations of Special Education; INTASC Content Knowledge]
2. Knowledge of how individuals learn and how to develop and provide opportunities that support intellectual, career, social, and personal development. [CEC Characteristics of Learners; INTASC Individual Development]
3. Knowledge of how individuals differ in their approaches to learning and how to create opportunities that are equitable and adaptable to the needs of diverse learners. [CEC Characteristics of Learners; INTASC Diverse Learners]
4. Knowledge of the planning processes based upon knowledge of content, learners characteristics, the community, and curriculum goals and standards. [CEC Instructional Content and Practice; INTASC Planning Process]
5. Knowledge of employing a variety of methods while developing critical thinking, problem solving, decision-making, and performance skills. [CEC Instructional Content and Practice. Managing Student Behavior and Social Interaction Skills; INTASC Strategies and Methods]
6. Knowledge of individual and group motivation and behavior and the creation of learning environments that encourage positive social interaction, active engagement in learning, and self-motivation. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Learning Environments]
7. Knowledge of effective verbal, nonverbal, and media communication techniques and other forms of symbolic representation and how to foster active inquiry, collaboration, and supporting interactions. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Communication]
8. Knowledge about formal and informal assessment strategies and evaluation of the learner's continuous intellectual, social, and physical development. [CEC Assessment, Diagnosis, and Evaluation; INTASC Assessments]
9. Knowledge of ethical relationships with parents, school colleagues, and organizations in the larger community to support the individual's learning development. [CEC Planning and Managing the Teaching and Learning Environment; INTASC Collaboration, Ethics, and Relationships]
10. Becoming a reflective practitioner who continually evaluates the effects of choices and actions on students, adults, parents, and other professionals in the learning community, and who actively seeks opportunities to grow professionally. [CEC Professionalism and Ethical Practices; INTASC Reflection and Professional Development]

The Department of Educational and Clinical Studies's philosophy includes a rich understanding of the unique needs of children and adults with disabilities/gifts and talents as well as typically developing young children and their impact on families, communities, and society. Each program has a set of principles by which they make programmatic and curricula decisions. These principles are aligned with COE/INTASC Standards, CEC Standards, and NCATE Unit Standards and include the understanding of:

- The central concepts, tools of inquiry, and structures of their discipline to create learning experiences that makes content meaningful.
- Individual development

- How individuals differ in their approaches to learning and how culture, disability, and/or learning opportunities impact students and their families
- The individuals planning process and how learner characteristics impact planning
- A variety of teaching and learning strategies that improve personal problem solving, decision making, and critical thinking
- Learning environments that encourage positive social interaction, active engagement in learning and self-motivation
- Effective communication strategies that foster active inquiry, collaboration, and supporting interactions

### University Graduation Requirements

- Please see Graduation Policies for complete information

Special Education Degree Requirements ..... Total: 120 Credits  
(see notes 1 and 2 below)

General Education Requirements ..... Subtotal: 37-40

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 10 credits
  - Two courses from life and physical sciences category; at least one must be a lab.
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BSEd in Special Education ..... Subtotal: 80 credits

Education Core Requirements ..... Credits: 9

- EPY 303 - Educational Psychology
- EDU 214E - Preparing Teachers to Use Technology

or

- EDU 214S - Preparing Teachers to Use Technology
- EDU 280 - Valuing Cultural Diversity (see note 3 below)

Licensure Methods ..... Credits: 9

- EDRL 437 - Teaching Reading
- EDSP 461 - Oral and Written Language Instruction for Students with Disabilities
- EDSP 462 - Math Methods for Students with Mild Disabilities

Special Education Generalist Core ..... Credits: 62

- EDU 203 - Introduction to Special Education

- EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities
  - EDSP 431 - Legal Aspects of Special Education
  - EDSP 481 - Practicum in a Resource Room
  - EDSP 442 - Curriculum Planning for English Language Learners With Diverse Needs
  - EDSP 415 - Second Language Pedagogy for Students in Inclusive Settings
  - EDSP 423 - Collaboration and Consultation in Special Education
  - EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings
  - EDSP 453 - Behavior Management Techniques for Students with Disabilities
  - EDSP 464 - Strategies for Students with Disabilities
  - EDSP 465 - Student Growth Models and Data-Based Instructional Decision Making
  - EDSP 487 - Pre-Student Teaching
  - EDSP 488 - Pre-Student Teaching Seminar
  - EDSP 432 - Serving Individuals with Disabilities and Their Families
  - EDSP 466 - Group Teaching Methods for Students with Disabilities
  - EDSP 491 - Student Teaching in Special Education (see note 4 below)
  - EDSP 414 - Career Education for Students with Disabilities
  - EDSP 492 - Student Teaching Seminar
  - EDRL 471 - Language Acquisition, Development and Learning Electives ..... Credits: 0-3
- Total Credits: ..... 120

### Notes

1. A candidate for the Bachelor of Science degree in Education must earn a minimum of 120 semester hours with 40 credits in upper-division courses.
2. A minimum GPA of 2.75 for all courses attempted must be maintained.
3. EDU 280 also fulfills the multicultural requirement of the general education core. One 3-credit elective course in Humanities and Fine Arts electives should be chosen to satisfy the International Requirement.
4. EDSP 491 (1 credit) must be repeated for a total of 10 credits.

### Special Education Minor

Courses Include

- EDU 203 - Introduction to Special Education
- EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities
- EDSP 431 - Legal Aspects of Special Education
- EDSP 481 - Practicum in a Resource Room
- EDSP 423 - Collaboration and Consultation in Special Education
- EDSP 453 - Behavior Management Techniques for Students with Disabilities
- EDSP 464 - Strategies for Students with Disabilities
- EDSP 432 - Serving Individuals with Disabilities and Their Families
- EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings
- EDSP 466 - Group Teaching Methods for Students with Disabilities
- EDSP 491 - Student Teaching in Special Education
- EDSP 492 - Student Teaching Seminar



## **Human Services**

### **CED 117 - Interpersonal Skills in Human Services**

Introductory survey of interpersonal skills utilized in human relationships, with a particular focus on counseling and other helping relationships. Examination and analysis of interpersonal theory, environmental, and cultural contexts for skills and a significant skill-development component. 3 credit(s)

### **CED 200 - Multicultural Issues of Counseling**

Students obtain better understanding of themselves in relationship to other cultural groups within the United States. Experiential course relying on in- and out-of-class activities. Develops awareness and sensitivity necessary to successful work with diverse populations in the field of human services counseling. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

### **CED 300 - Introduction to Human Services Counseling**

Introduction to the field of human services and counseling. Topics include various perspectives on human services and counseling such as trends in human service delivery, counseling theories and practice, crisis intervention, intervention programs, and ethical issues. Prerequisite(s): ENG 102. 3 credit(s)

### **CED 310 - Relationships Across the Lifespan**

Learn the knowledge of basic relationship issues across the lifespan and how it relates to the human services professional. Prerequisite(s): CED 117 completed, or concurrent enrollment. 3 credit(s)

### **CED 315 - Counseling Skills in Human Services**

Overview of basic counseling skills in the human services profession including: the history of counseling skills in human services; overview of the helping model; the therapeutic relationship in counseling; attending, listening and understanding skills; empathy; probing and summarizing; reluctant and resistant clients; decision-making skills; and goal setting. Prerequisite(s): CED 300. 3 credit(s)

### **CED 320 - Drugs and Behavior**

Familiarizes the student with various classes of substances, substances' physiological effects and substances' effects on behavior. Prerequisite(s): ENG 102. Note(s): May be repeated to a maximum of six credits. 3 credit(s)

### **CED 322 - Perspectives on Addictions**

Critical review of the definitions/terminology used in the addictions field, major concepts relating to addictions, and model/theories used to understand addictive behavior. Emphasizes students' self-awareness of attitudes regarding addictions. Prerequisite(s): CED 320. 3 credit(s)

### **CED 323 - Prevention I: System Oriented Prevention Strategies and Programs**

Orientation to prevention and thorough understanding of system-oriented prevention strategies and programs. Prerequisite(s): ENG 101. 3 credit(s)

### **CED 324 - Prevention II: Client Oriented Prevention Strategies and Programs**

Provides the student with a thorough understanding of client-oriented prevention strategies. Prerequisite(s): CED 323. 3 credit(s)

### **CED 325 - Mental Health and the Human Services Profession**

Students will acquire an understanding of the mental disorders experienced by individuals receiving mental health services, as well as the supports and interventions that promote greater mental health and well-being, as related to the Human Services profession. Prerequisite(s): ENG 101, CED 300, CED 315. 3 credit(s)

### **CED 375 - Ethical and Professional Issues in Human Services**

Ethical, legal, and professional issues related to human services. Provides a basis for making professional decisions related to these issues. Codes of Ethics, state statutes, and case law related to human services. Corequisite(s): CED 400. Prerequisite(s): CED 300, CED 315. 3 credit(s)

### **CED 400 - Field Experience in Human Services I**

Provides students with supervised work experience in human services agencies. Students participate in a weekly class that combines the principles of small group dynamics with acquired skills, knowledge and experience that

students have obtained from their field experience. Corequisite(s): CED 375  
Prerequisite(s): Must be formally admitted to Human Services Counseling Program. 3 credit(s)

### **CED 401 - Field Experience in Human Services II**

Continuation of supervised field placement, following Field Experience I. Provides students with further supervised work experience in human services agencies. Prerequisite(s): CED 325, CED 375, CED 400, MFT 350. 3 credit(s)

### **CED 408 - Counseling the Older Adult**

Overview of issues that may be encountered while counseling the older adult. Reviews basic information on the nature, diagnosis and treatment of common mental health problems of later life. Introduces students to services and support systems that are available to older adults and their families that will assist in the referral process. The course also reviews careers in aging focusing on gero-counseling. Prerequisite(s): CED 117. Note(s): This course is crosslisted with CED 608. Credit at the 600-level requires additional work. 3 credit(s)

### **CED 410 - Eating Disorders: Etiology and Treatment**

Designed as a comprehensive review of eating disorders, correlated issues, and treatment interventions. Cultural, familial, societal, and personal factors that may contribute to the development and maintenance of eating disorders. Variety of prevention and intervention strategies explored. Prerequisite(s): One of the following courses: CED 320, PBJ 430, NUTR 370. Note(s): This course is crosslisted with CED 610. Credit at the 600-level requires additional work. 3 credit(s)

### **CED 420 - Identification, Assessment, and Treatment of the Process Addictions**

This course is designed to develop the knowledge and skills to identify, assess, and treat various process and co-occurring disorders. Emphasis will be placed on the history, philosophy, and trends of addiction counseling. In addition, current literature outlining theories, approaches, effective strategies, and techniques will be explored. Prerequisite(s): CED 320. Note(s): This course is crosslisted with CED 620. Credit at the 600-level requires additional work. 3 credit(s)

### **CED 425 - Perspectives in Multicultural Counseling**

Focuses on developing awareness, knowledge, and skills in working with culturally different individuals and groups. Substantial attention given to interpersonal issues, concerns related to different cultures, and programming in a variety of settings. Prerequisite(s): CED 300, CED 315. 3 credit(s)

### **CED 427 - Clinical Principles and Processes in Addictions**

Provides students with knowledge of how to identify and assess individuals with addictions. Epidemiological, pathological, physiological, psychological, and cultural basis of addictions across the lifespan are examined. Includes assessment/screening tools, motivational interviewing, the family system, enabling, and resource and referral systems. Prerequisite(s): CED 320. 3 credit(s)

### **CED 430 - Advanced Professional Issues in Addictions**

Professional issues involved in addictions counseling. Topics include: stress and burnout, legal and ethical issues, drugs in the workplace, ethnographic attitudes toward addictions, and the economic and health issues associated with addictions. Prerequisite(s): CED 320. 3 credit(s)

### **CED 439 - Gambling Disorder Counseling**

Orients students to the history, etiology and prevalence of compulsive gambling. Provides students with the knowledge of assessment tools and counseling skills. Characteristics of compulsive gambling behavior; stages of progression, distinctions and connections to other addictions, effects on families, finances and legal issues. Prerequisite(s): ENG 101 and CED 300. Note(s): This course is crosslisted with CED 639. Credit at the 600-level requires additional work. 3 credit(s)

### **CED 440 - Problem Gambling Counseling II**

Provides students with a thorough understanding of client-oriented counseling modalities and strategies. Provides skills to utilize and interpret assessment tools and provide treatment planning. Practical applications and clinical skills. Prerequisite(s): CED 439. Note(s): This course is crosslisted with CED 640. Credit at the 600-level requires additional work. 3 credit(s)



**CED 444 - Child Centered Play Therapy in Counseling**

Offers a comprehensive foundation for those interested in working with children within therapeutic settings, course focuses on the use of Virginia Axline's Play Therapy interventions, including theory, therapeutic processes and responses, stages of therapy, limit setting, therapeutic contraindications and limitations, ethical issues and diversity considerations. Prerequisite(s): CED 117. 3 credit(s)

**CED 445 - Trauma and Addiction**

Designed to provide a working knowledge of the various ways that substance abuse and personal trauma impact each other. Emphasis on identifying signs and symptoms. Diagnostic criteria for various trauma categories and counseling approaches explored. Prerequisite(s): CED 320, junior or senior standing. Note(s): This course is crosslisted with CED 645. Credit at the 600-level requires additional work. 3 credit(s)

**CED 446 - Combat Trauma**

Overview of the trauma that is experienced by individuals involved in armed combat situations. The signs and symptoms of such involvement will be explored. Impact on families and communities will also be addressed. Prerequisite(s): CED 320 or Junior/Senior standing. Note(s): This course is crosslisted with CED 646. Credit at the 600-level requires additional work. 3 credit(s)

**CED 450 - Treatment of Addictions**

(Same as SW 475.) Covers classification of drugs; phases of treatment of addictions; basic individual and group treatment skills; contents of various treatment approaches; and the treatment guidelines regarding working with special populations, including women, adolescents, the elderly, etc. Prerequisite(s): CED 320. 3 credit(s)

**CED 461 - Technology and the Internet in Social Science Research and Practice**

Explores the role of technology in changing society, the application of technology to the field of social science research and practice, and the limitations and concerns about technology in the helping professions. Prerequisite(s): CED 300. 3 credit(s)

**CED 465 - Case and Resource Management in Human Services**

This course is an advanced theory and application course that integrates client case management techniques into the larger social/administrative environments of the workplace and the community. The role of the case specialist as planner, evaluator, manager, budget supervisor, and advocate will be examined from both the micro (client) and macro (organizational) perspective. Prerequisites CED 117, 200, 300 and 315.

**CED 475 - Prevention Strategies and Development Theories in Addictions**

Provides in-depth review of alcohol/drug prevention strategies, successful prevention programs, prevention addressing the individual, family, peers, school, and community, and the relationship between developmental theories and successful prevention program strategies. Prerequisite(s): CED 320. 3 credit(s)

**CED 480 - Independent Study**

Individual reading projects under the direction of a faculty member. Prerequisite(s): CED 300, CED 315. May be repeated up to a maximum of six credits. Note(s): Department approval must be obtained prior to registration. 1-6 credit(s)

**Education****TESL 442 - Curriculum Planning for English Learners with Diverse Needs**

Principles of curriculum organization, development, and implementation examined relative to English Language Learners (ELLs) with and without disabilities. Connection between research, theory, and practice studied, focusing on integration of listening, speaking, reading, and writing skills in well developed second language curriculum. Prerequisite(s): EDSP 415, EDU 203. 3 credit(s)

**TESL 471 - Language Acquisition, Development and Learning**

Contemporary philosophies of second language acquisition, with selected topics related to language use and ideology. 3 credit(s)

**TESL 474 - Methods for English Language Learners**

Introduction to English as a Second Language (ESL) methods, strategies, and instruction, including topics for teaching and accommodating English Language Learners (ELLs) with and without special needs in inclusive classrooms. Prerequisite(s): EDRL 471 and admission to the Elementary Education Program. 3 credit(s)

**Early Childhood Education****ECE 250 - Orientation to Early Childhood Education**

Introduction to early childhood education, emphasizing the development needs of young children ages 3 to 8. 3 credit(s)

**ECE 251 - Curriculum in Early Childhood Education**

Study of the learning principles, curriculum, and methods which early childhood education programs provide for young children. Emphasis on current trends, issues, and the developmental theories of early learning experiences. Prerequisite(s): ECE 250. 3 credit(s)

**ECE 252 - Infant/Toddler Curriculum**

Examination, integration, and evaluation of practical and theoretical issues related to developing curriculum for infants and toddlers. Discussion focuses on infant/toddler development, teacher and caregiver roles, working with families, program evaluation, and working with special populations. Prerequisite(s): Prerequisite or Corequisite: ECE 250. 3 credit(s)

**ECE 299 - Practicum for Infants/Toddlers**

Six-hour per week supervised teaching experience with infants and toddlers. Includes program planning, implementing early education, infant/toddler guidance, and working with families. Prerequisite(s): ECE 252. 3 credit(s)

**ECE 431 - Teaching Communications Skills to Young Children**

Current theories of language acquisition. Methods for developing listening skills and oral language with a focus on early literacy. Prerequisite(s): ECE 250. 3 credit(s)

**ECE 441 - Play Theory, Creativity, and Aesthetics in Early Childhood Education**

Current theories of play interpretation, examination of the nature of creative expression, and use of materials and activities to support the aesthetic domain of young children. Prerequisite(s): ECE 250. 3 credit(s)

**ECE 453 - Methods for Early Childhood Education I: Social Sciences**

Review of philosophical backgrounds of the Early Childhood Education movement; growth, development, and learning patterns of children 3-7 years old. Strategies for teaching young children, evaluation, and reporting of pupil growth to parents. Prerequisite(s): ECE 250. 3 credit(s)

**ECE 454 - Methods in Early Childhood Education II: Math and Science**

Examination of curriculum areas (e.g. math, science, nutrition, and safety) and planning, implementation, and evaluation of activities. Emphasis on developmentally appropriate materials and learning experiences, and working with special populations within the parameters of the curriculum. Prerequisite(s): ECE 251. 3 credit(s)

**ECE 456 - Positive Discipline in Early Childhood Programs**

This course will explore current research and approaches in managing and guiding young children's behavior in early childhood programs. Guidance and discipline is considered within a framework of child development and developmentally appropriate practice. Methods including theoretical approaches, respecting diversity, understanding vulnerabilities, and analysis of discipline problems will be covered. 3 credit(s)

### **ECE 457 - Working with Families in Early Childhood Education**

The purpose of this course is to provide theory, principles, and procedures for fostering collaborative partnerships with families of young children, with a focus on empowerment of families, and professionals. Course content focuses on historical and legal foundations, contemporary frameworks, effective communication methods, and consideration of a variety of contemporary issues affecting family-professional partnerships. In addition, examination of cultural and other types of diversity between families and professionals will be emphasized. These issues will be presented within a framework of school, community, and society perspectives. 3 credit(s)  
Prerequisite(s): ECE 250.

### **ECE 461 - Early Childhood Education Management**

Examination of managerial principles, skills, knowledge, and philosophy required of administrators of early childhood programs. Also investigates basic principles involved in establishing and operating centers for the young child. Prerequisite(s): ECE 250, ECE 251, ECE 252, ECE 299. 3 credit(s)

### **ECE 481 - Internship in Early Childhood Education Management/Administration**

Twenty-hour per week supervised administrative experience in an early childhood setting. Includes program evaluation, staff evaluation, staff development, developing communication systems, assessing curriculum needs and supervising staff. Prerequisite(s): Completion of all early childhood education program courses: ECE 461 may be taken concurrently. 3 credit(s)

### **ECE 482 - Preschool Fieldwork in Early Childhood Education**

Full-time supervised teaching experience with preschoolers. Experience includes program planning, implementing early education, preschool guidance, and working with families. Prerequisite(s): Completion of all ECE program courses. 6 credit(s)

### **ECE 483 - Pre-Student Teaching in Early Childhood Education**

Ten-hour per week supervised teaching experience with preschoolers. Experience includes program planning, implementing early education, preschool guidance, and working with families. Prerequisite(s): Completion or concurrent enrollment of all ECE program courses. 3 credit(s)

### **ECE 491 - Student Teaching in Early Childhood Education**

Full-time supervised teaching experience with young children completed in two separate settings: one setting must be with children birth to 5 years of age (infant/toddler, preschool, or kindergarten setting); one setting must be with children 6 to 8 years of age (first- or second-grade setting). Corequisite(s): ECE 492. Prerequisite(s): Completion of all other ECE program coursework except ECE 492. B or better in ECE 299; B or better in ECE 483. 8-12 credit(s)

### **ECE 492 - Student Teaching Seminar in Early Childhood Education**

Application of specific curricular learning and procedures designed to facilitate the task of the student teacher. Prerequisite(s): Completion of all other ECE program coursework. Must be taken by all students enrolled in ECE 491. 2 credit(s)

## **Special Education**

### **EDSP 401 - Problems in Special Education**

Specialized instruction in special education designed to develop in-depth understanding of a current educational problem. Prerequisite(s): Consent of instructor. 1-6 credit(s)

### **EDSP 411 - Students with Disabilities in General Education Settings**

Exploration of techniques/principles commonly employed in special education and their usefulness to regular class teachers, recreation personnel, parents, and others who work with handicapped children in regular settings. Prerequisite(s): EDU 201 or EDU 202 or PED 170 or EDWF 135 or EDU 203 or ECE 250. 3 credit(s)

### **EDSP 412 - Foundations of Motor Skills**

Psychological, kinesiological, and mechanical principles for understanding and applying motor activities and remedial techniques. Prerequisite(s): EDSP 442. 4 credit(s)

### **EDSP 413 - Introduction to Adapted Physical Education**

(Same as PED 465.) Adapted physical education and recreational programming for the physically challenged child. Emphasis on gross and fine motor coordinative activities, fitness, and recreational activities in special education. Prerequisite(s): Ten credits in special education and consent of instructor. 3 credit(s)

### **EDSP 414 - Career Education for Students with Disabilities**

(Same as EDWF 492A.) Consideration and design of career education programs for students with disabilities. Transition and adult programs discussed. Prerequisite(s): EDU 203. 3 credit(s)

### **EDSP 415 - Second Language Pedagogy for Students in Inclusive Settings**

(Same as TESL 474.) Introduction to English as a Second Language (ESL) methods, strategies, and instruction, including topics for teaching and accommodating English Language Learners (ELL) with and without special needs in inclusive classrooms. Prerequisite(s): EDU 203, EDSP 441, EDRL 471. 3 credit(s)

### **EDSP 421 - Education of Students with Emotional Disturbance**

Study of existing educational programs for students with emotional disabilities in public schools, day care, and community programs. 3 credit(s)

### **EDSP 422 - Education of Students with Physical Disabilities**

Study of educational programs for students with physical disabilities within the school, agency, and clinical settings. 3 credit(s)

### **EDSP 423 - Collaboration and Consultation in Special Education**

Introduction to the collaborative consultative model in special education with emphasis on the role of the special educator in the collaborative process. Practical consultative techniques emphasized. Prerequisite(s): EDU 203 or ECE 250. 3 credit(s)

### **EDSP 431 - Legal Aspects of Special Education**

Analysis of federal, state, and local statutes, policies and titles which affect the funding and direction of special education programs particularly as related to the development and implementation of Individual Education Programs for students with disabilities. Prerequisite(s): EDU 203, EDSP 441, and EDU 210. 3 credit(s)

### **EDSP 432 - Serving Individuals with Disabilities and Their Families**

Considerations relevant to federal mandates and appropriate to the development of individualized educational programs for exceptional children. Emphasis given to parental roles, rights and responsibilities, the employment of special teaching personnel, and external agency resources in IEP planning and implementation. Prerequisite(s): EDU 203 EDU 203 or ECE 250 and ESPBA or ESPBS or ECEBS major and passing PPST scores or PRAXIS CORE Scores. 3 credit(s)

### **EDSP 441 - Characteristics and Inclusive Strategies for Students with Mild/Moderate Disabilities**

Introduces common characteristics and educational needs of students with emotional disturbance, learning disabilities, and/or intellectual disabilities. Appropriate educational strategies discussed. Prerequisite(s): EDU 203 or other Introduction to Special Education. 3 credit(s)

### **EDSP 442 - Curriculum Planning for English Language Learners With Diverse Needs**

Principles of curriculum organization, development, and implementation examined relative to English Language Learners (ELLs) with and without disabilities. Connection between research, theory, and practice studied, focusing on integration of listening, speaking, reading, and writing skills in well developed second language curriculum. Prerequisite(s): EDSP 415, EDU 203 and passing PPST scores. 3 credit(s)

**EDSP 451 - Assessment of Diverse Learners with Disabilities in Inclusive Settings**

Presentation of essential diagnostic and prescriptive strategies applicable to students with disabilities, including English language learners. Prerequisite(s): EDU 203, EDSP 441, EDSP 442 (or concurrent enrollment in EDSP 442), EDSP 415, EDRL 471. Note(s): Must be taken prior to or concurrently with EDSP 487. 3 credit(s)

**EDSP 453 - Behavior Management Techniques for Students with Disabilities**

Principles of behavior management and social learning theory to aid parents and educators in improving academic and social behavior of students with and without disabilities in the classroom and home settings. Prerequisite(s): Ten credits in special education. 3 credit(s)

**EDSP 461 - Oral and Written Language Instruction for Students with Disabilities**

Provides specific strategies for assessing and teaching oral and written language skills to students with disabilities, with emphasis on educational needs rather than clinical classifications. Prerequisite(s): EDU 203. 3 credit(s)

**EDSP 462 - Math Methods for Students with Mild Disabilities**

Provision of math instruction to students with mild disabilities. Focuses on appropriate methods and interventions for teaching mathematics skills to students with mild disabilities. Prerequisite(s): MATH 120, or MATH 124, or MATH 122 and MATH 123; and EDU 203. Passing PPST scores or PRAXIS CORE. 3 credit(s)

**EDSP 464 - Strategies for Students with Disabilities**

Practical methods and learning strategies for teaching students who are at risk for school failure. Specific training in the strategies intervention model. Prerequisite(s): EDU 203 EDU 203 and EDSP 441 Admitted to program, passing PPST scores or PRAXIS CORE. 3 credit(s)

**EDSP 465 - Student Growth Models and Data-Based Instructional Decision Making**

Students obtain skill in analyzing and utilizing commercial and teacher-made instruments and materials to identify and enhance children's learning styles. Prerequisite(s): EDU 203. 3 credit(s)

**EDSP 466 - Group Teaching Methods for Students with Disabilities**

Selection and application of specific curricular learning and procedures designed to facilitate the task of the student teacher. Corequisite(s): EDSP 487 and EDSP 488. Prerequisite(s): EDRL 437, EDRL 471, EDU 203, EDSP 415, EDSP 441, EDSP 481, (or concurrent enrollment in EDSP 442), EDSP 423, EDSP 453, EDSP 462, EDSP 464. 3 credit(s)

**EDSP 471 - Introduction to Early Childhood Special Education**

Characteristics of young handicapped children from birth to eight years; local, state and national programs; legislation; assessment and intervention strategies; curriculum; classroom management; family involvement; and coordination of community agencies. Prerequisite(s): ECE 250 (or concurrent enrollment), attempted PPST. Admitted to ESPBA or ESPBS or ECEBS programs. 3 credit(s)

**EDSP 473 - Developmental Assessment in Early Childhood Special Education**

Survey of issues related to assessment of children with atypical patterns of development. Introduction to principles of unstructured and structured observations of young children with developmental delays or those at-risk for developmental delays. Issues of cultural diversity considered. Prerequisite(s): ESPBA or ESPBS or ECEBS and PPST scores or PRAXIS CORE scores, EDSP 471. 3 credit(s)

**EDSP 474 - Curriculum Development in Early Childhood Special Education**

Introduction to the various curricular approaches to the education of children birth to 8 years of age with disabilities. Focuses on materials, published guides, and descriptions of curricular methods used with young children with developmental delays or those at-risk for developmental delays. Prerequisite(s): or concurrent enrollment in EDSP 471. 3 credit(s)

**EDSP 475 - Strategies for Teaching Young Children with Disabilities**

Survey of strategies for teaching children with atypical patterns of development. Emphasis placed on methods that can be employed in the general education setting. Includes strategies for adapting the general curriculum and setting for young children with developmental delays. Issues of cultural diversity considered. Prerequisite(s): Prerequisites or concurrent enrollment in EDSP 471. ESPBA or ESPBS or ECEBS and PPST scores or PRAXIS CORE scores. 3 credit(s)

**EDSP 481 - Practicum in a Resource Room**

Provides supervised experience in working with students with mild disabilities in a resource room setting. Prerequisite(s): EDU 203; EDSP 441. Admitted to the ESPBA or ESPBS program and PPST scores or PRAXIS CORE scores. 4 credit(s)

**EDSP 486 - Internship in Reading**

(Same as EDRL 469.) Supervised experience in teaching reading in regular classrooms, resource rooms, and other appropriate settings. Students work five hours per week (75 hours per semester) in an assigned setting and meet one hour weekly on campus with the instructor of record. Prerequisite(s): EDRL 461. 3 credit(s)

**EDSP 487 - Pre-Student Teaching**

Introduction to practice teaching with students with disabilities. Corequisite(s): Must be concurrently enrolled in EDSP 466 and EDSP 488. Prerequisite(s): EDRL 437, EDRL 471, EDU 203, EDSP 441, EDSP 442, EDSP 464, EDSP 481, (or concurrent enrollment in EDSP 442), EDSP 415, EDSP 423, EDSP 453, EDSP 462. 3 credit(s)

**EDSP 488 - Pre-Student Teaching Seminar**

Specific curricular learning and procedures to facilitate the task of the pre-student teacher in special education. Corequisite(s): EDSP 466 and EDSP 487. Prerequisite(s): EDRL 437, EDRL 471, EDU 203, EDSP 441, EDSP 442, (or concurrent enrollment in EDSP 442) EDSP 464, EDSP 481, EDSP 415, EDSP 423, EDSP 453, EDSP 462. 1 credit(s)

**EDSP 491 - Student Teaching in Special Education**

Full-time supervised practice teaching with exceptional children. Corequisite(s): EDSP 492. Prerequisite(s): Completion of all course work; Must have a B or better in EDSP 466 and EDSP 487. 1-12 credit(s)

**EDSP 492 - Student Teaching Seminar**

Application of specific curricular learning and procedures designed to facilitate the task of the student teacher. Corequisite(s): EDSP 491. Prerequisite(s): Must have a B or better in EDSP 466 and EDSP 487. 2 credit(s)

**ESP 210 - Education of Students with Gifts and Talents**

Study of educational programs for students with gifts and talents at the preschool, elementary, and secondary levels. 3 credit(s)

**ESP 261 - Medical Aspects of Handicapping Conditions**

Study of the physiological characteristics of children and youth with disabilities, including current research in medical fields. Prerequisite(s): EDU 203. 3 credit(s)

# Division of Educational Outreach

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## ***Purpose and Focus***

The Division of Educational Outreach mission is to extend UNLV's educational resources in support of and partnership with the community, state, region and beyond in an effort to serve learner needs and interests through innovative courses and comprehensive programs and services. Adult, senior and part-time students, military personnel, government and business employees, and learners who are unable to attend traditional campus-based credit courses and programs constitute the student populations served by the division. The division works with deans and faculty across campus to help shape university outreach to government, business, and the general public by offering high-quality credit and noncredit program offerings.

Continuing Education is the non-credit arm of the university and provides opportunities for professional development and personal enrichment through workshops, classes, travel, seminars, conferences, and custom training. Whether you want to earn a professional certification, expand your understanding of emerging technology, learn a language, explore the world, or discover your creative side, we have a class for you. Our goal is to serve the Las Vegas community with the classes you want and need.

Summer Term and Community2Campus develop academic credit programs serving emerging academic disciplines and special publics. The division also includes the Testing Services, Cannon Survey Center, Osher Lifelong Learning Institute, and Public Lands Institute.

## ***Division Units***

- Vice Provost for Educational Outreach
- Cannon Survey Center
- Continuing Education,
- Community2Campus
- Summer Term
- Osher Lifelong Learning Institute
- Public Lands Institute

## ***Academic Programs Administered by the Division***

**Summer Term:** Summer Term provides students an opportunity for year-round continuation of their program, supports effective continuity of graduate education and research, encourages instructional innovation and interdisciplinary experimentation by faculty by piloting new curriculum, provides early entry students

and continuing students the opportunity to accelerate degree completion, and offers career development opportunities and degree advancement for teachers and other professionals. Summer Term is an integral part of learning at UNLV, spanning 13 weeks. It starts with a three-week session and is followed by two five-week sessions. Summer courses have the same academic content as the fall or spring courses, but move at a much faster pace. Many students enjoy limiting their attention to one or two topics and find that attending classes five days a week encourages them to concentrate on the subject material. For more information, visit [summerterm.unlv.edu](http://summerterm.unlv.edu) or call the Summer Term office at 702-895-3711.

**Community2Campus:** Community2Campus assists UNLV academic departments throughout the year to offer academic credit courses that are self-supporting and often taught outside the traditional semester schedule. Non-traditional students returning to college can apply for scholarships through Community2Campus and take advantage of support services designed to facilitate their educational journey. Community2Campus is committed to forging partnerships within the community to deliver responsive educational opportunities. For more information, visit [edoutreach.unlv.edu/community2campus](http://edoutreach.unlv.edu/community2campus) or call 702-774-4626.

## ***Admission Policies***

The requirements for admission to the Academic Credit Courses are the same as the requirements for admission to the University of Nevada, Las Vegas. Additional requirements may be added to gain admission to a specific program.

## ***Continuing Education: Non-credit and Professional Certificate Programs***

Continuing Education offers non-credit certificates in professional disciplines including human resource management, public relations, paralegal, sommelier, nonprofit management, medical assisting, fashion design, graphic design, internet design and technology, and personal fitness training. Or, try a new hobby with a personal enrichment course. We also partner with businesses, organizations, and groups to create custom training opportunities. If there is something you want to learn and we do not currently offer it, we can build it for you. Call Continuing Education at 702-895-3394 for more information or email [continuing.education@unlv.edu](mailto:continuing.education@unlv.edu).



# Howard R. Hughes College of Engineering

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## **Introduction**

The College of Engineering offers majors in several engineering disciplines, computer science, and construction management as well as minors in engineering disciplines, technology commercialization, computer science and Reserve Officers' Training Corps (ROTC) related fields.

Engineering is a discipline that has had a direct and vital impact on people's lives throughout history. In ancient times, mankind practiced the art of engineering by creating fundamental inventions such as stone tools, the lever, and the wheel. In modern times, engineers apply innovative methods using scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Today engineers are responsible for creations such as skyscrapers, dams, water treatment plants, automobiles, airplanes, electric power, computers, electronic communication systems, the internet and medical diagnostic tools. An engineering education provides opportunities for solving problems of great social significance and for increasing humankind's quality of life.

Since the development of the electronic computer in the 1940s, the computer science field has seen spectacular growth. Electronic computers now range from single-chip microcomputers in any number of electrical appliances, such as refrigerators and thermostats, to supercomputers which can perform thousands of trillions of operations per second. Computer Science is the study of the design of computer software and hardware as it relates to the theory of computation, algorithms and data structures, programming methodology and languages, operating systems, and computer elements and architecture. Its applications include computer system architecture, computer networks, distributed computer systems, programming languages and software systems, information and data management, artificial intelligence, computer science theory, evolutionary algorithms, and computer vision and graphics.

Construction Management is a discipline and management system specifically created to promote the successful execution of construction projects for clients. A construction manager or management team coordinates the different processes, budgets and timetables necessary to complete a major construction project. In particular, a construction manager or management team is responsible for the overall planning, coordination and control of a construction project from inception to completion while meeting a client's requirements. This includes ensuring the construction of functionally and financially viable project that will be completed on time within authorized cost and to the required quality standards.

The mission of the Howard R. Hughes College of Engineering is to serve society and the region as a center of higher learning and research by providing technology, computer science, and engineering education to technologists and engineers, some of whom will become future leaders, entrepreneurs and innovators. The College's goals are:

- To provide quality undergraduate education through nationally-accredited programs in computer science, civil engineering, computer engineering, electrical engineering, entertainment engineering and design, mechanical engineering, and construction management. Graduates of our undergraduate programs will have the
  1. Appropriate technical knowledge and skills to be technically competent in their disciplines
  2. Appropriate interpersonal skills to function professionally in their disciplines
  3. Knowledge and skills to be a responsible citizen
- To provide competitive graduate and professional education in computer science, civil and environmental engineering, electrical engineering, mechanical engineering, and construction management.
- To create knowledge through research and to disseminate the results of research through publication.
- To engage in private and public service through outreach, creation, and dissemination of knowledge, or to function as a repository of knowledge.

## **Accreditation**

Northwest Commission on Colleges and Universities, [www.nwccu.org](http://www.nwccu.org)  
Bachelor of Science in Engineering degree programs in Civil Engineering, Computer Engineering, Electrical Engineering, and Mechanical Engineering accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.

Bachelor of Science in Computer Science accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>.

Bachelor of Science in Construction Management accredited by the American Council for Construction Education (ACCE), <http://www.acce-hq.org/>

## **Departments, Majors, Minors and Undergraduate Degrees**

### **College of Engineering**

Engineering Science — Minor

Solar & Renewable Energy — Minor

Technology Commercialization — Minor

Unmanned Aircraft System (UAS) — Minor

### **Certificate**

Technology Commercialization

Unmanned Aircraft System (UAS)

Entertainment Engineering and Design — Bachelor of Science

- Engineering Option
- Design Technology Option
- Entertainment Engineering and Design — Minor

## **Department of Aerospace Studies (Air Force Reserve Officers' Training Corps)**

Aerospace Studies — Minor

## **Department of Civil and Environmental Engineering and Construction**

Civil Engineering — Bachelor of Science in Engineering

Construction Management — Bachelor of Science

Engineering Science Option

Management Option

## **Department of Computer Science**

Computer Science — Bachelor of Arts

Computer Science — Bachelor of Science

Computer Science — Minor

## **Department of Electrical and Computer Engineering**

Computer Engineering — Bachelor of Science in Engineering

Electrical Engineering — Bachelor of Science in Engineering

## **Department of Mechanical Engineering**

Mechanical Engineering — Bachelor of Science in Engineering

## **Department of Military Science (Army Reserve Officers' Training Corps)**

Military Science — Minor

## **Graduate Degree Programs**

Aerospace Engineering — Master of Science

Biomedical Engineering — Master of Science

Civil Engineering — Master of Science in Engineering

Doctor of Philosophy in Engineering

Computer Science — Master of Science

Doctor of Philosophy

Construction Management — Master of Science

Electrical Engineering — Master of Science in Engineering

Doctor of Philosophy in Engineering

Materials and Nuclear Engineering — Master of Science

Mechanical Engineering — Master of Science in Engineering

Doctor of Philosophy in Engineering

Transportation — Master of Science

## **Multicultural Engineering Program**

The mission of UNLV's Multicultural Program (MP) is to recruit minority and underrepresented undergraduate and graduate students into the Science, Technology, Engineering, Math (STEM) and healthcare related disciplines; foster a positive and caring learning atmosphere that supports classroom instruction and professional development; increase retention and graduation rates; and improve overall student success. The MP office provides a wide range of student support services and assistance in finding scholarships, internships, summer and part-time jobs, as well as, post graduate full-time employment within the STEM and Health Science industries.

The original MP began in 1989, as the Minority Engineering Program in response to the under-representation of American-Indians, African Americans, Latino and Hispanic Americans, and women in engineering, computer science, informatics, and construction management professions. As of 2013 we have expanded from the College of Engineering and now include the entire STEM and health science related disciplines.

## **Admission to the College**

**Admission Policies:** All programs in the College of Engineering require elevated levels of mathematics preparedness. A student admitted to UNLV must meet one of the following requirements for admission to the College of Engineering:

- SAT Mathematics Score of 520 or higher, or
- ACT Mathematics Score of 22 or higher, or
- Grade of C or better in MATH 096, or
- Placement into MATH 126 (Precalculus) or above by the UNLV Department of Mathematical Sciences.

High school graduates are strongly advised to complete four years of English, four years of high school mathematics including AP Calculus, three years of high school science including chemistry, physics and one AP science course while in high school.

**Transfer Policies:** Transfer students from other universities or from other UNLV colleges must have a minimum GPA of 2.5 for admission to the College of Engineering. Transfer students with a GPA of less than 2.5 can be admitted on probationary status and must schedule an interview with the Engineering Academic Advising Center prior to entering the college. The student may be required to agree to an academic performance contract.

## **College Policies**

**Pre-major Placement:** Except for students entering the Entertainment Engineering and Design major, all freshman and transfer students admitted to the college are placed in one of the following pre-major programs in the college.

CEGPRES — Civil and Environmental Engineering

CEMPRES — Construction Management

COEPRES — Computer Engineering

CSCPRES — Computer Science

EEGPRES — Electrical Engineering

MEGPRES — Mechanical Engineering

ECSPRES — Undecided

EGGPRB — Probation

Students in these pre-programs will be assigned an advisor by the College of Engineering Academic Advising Center. Students in these pre-programs are expected to complete courses in their majors. After a student has completed pre-engineering courses prescribed by their chosen major, the student is eligible to submit an application to the Academic Advising Center for advanced standing in their major. Advanced standing status allows a student to take upper-division courses in the student's major.

**Credit for Transfer Courses:** Transfer students from other Nevada institutions should obtain a copy of the Nevada System of Higher Education (NSHE) Course Transfer Guide to determine course equivalencies between those institutions and UNLV. Students may also visit the transfer student information page found linked from the Admissions webpage. Students can access the transfer course equivalency tables, learn about admission requirements and FAQ's about transferring to UNLV. Transfer students must be aware that even though the Office of the Registrar & Admissions accepts courses for transfer credit, each department evaluates courses for content and level prior to acceptance toward a degree in any major. Students may be required to furnish documentation on some courses before they can be considered for acceptance as an equivalent course.

**International Students:** International students are required to take placement exams in English as a second language (ESL) and to enroll in the appropriate ENG or ESL courses recommended by the Director of the English Language Center.

**Probation:** A student may be placed on college probation if:

1. The cumulative GPA falls below 2.00.
2. The student is not taking courses toward a college degree program.
3. The student does not have credit for ENG 101 and MATH 181 or is not progressing toward these course requirements.

**Suspension:** A student will be placed on college suspension for one semester if on probation for two consecutive semesters.

A suspended student, whether on college or university suspension, may be readmitted to the college based on approval of the Associate Dean for Undergraduate Programs. The re-admitted student will remain on college probation and may be suspended again unless specific goals that are articulated in a contract entered into by the student and the Associate Dean for Undergraduate Programs have been achieved. All re-admitted students must make an appointment with the College of Engineering Academic Advising Center to develop contract requirements. A student on college suspension, while not eligible to take any courses in the college, may take other courses to improve academic standing and demonstrate readiness to continue a degree program within the college. Please see the University policy regarding suspension rules..

### ***Academic Advising Center***

It is the goal of the College of Engineering Academic Advising Center to assist each student in navigating the requirements of their degree while at UNLV. The advising center staff is committed to providing academic assistance to students as they fulfill their educational goals and achieve academic success, thereby enabling our graduates to enter into their chosen field within the engineering, construction management and computer science professions.

The Academic Advising Center administers the academic advising services for all college disciplines and facilitates transfer course evaluations, student applications for advanced standing status and graduation initiation. All undergraduate students are encouraged to visit the College of Engineering Academic Advising Center located in TBE A-207 and take advantage of the services and assistance provided to ensure accuracy of semester schedules, to obtain referrals to campus resources and student support services to help with academic and personal goals, and ensure a timely graduation. Additionally, students should also review the Academic Advising Center's website for additional information (<http://engineering.unlv.edu/advising/>).

The Academic Advising Center schedules general advising and registration specific advising appointments each semester on a first-come, first-serve basis, however weekly open advising is also available for short questions. Students should come to the Academic Advising Center or call 702-895-2522, to make an appointment for advising with the Advisor assigned to their major. During the first week of classes, students should be prepared to submit proof that they have taken and passed all necessary prerequisite courses; and are currently registered in all corequisite courses, otherwise, they face being administratively dropped from courses in which they do not meet the necessary prerequisites and corequisites. The college may refuse to accept any course taken more than eight years prior to graduation. Students to whom this requirement might apply should consult with their academic advisor for further direction.

## **Entertainment Engineering and Design Major - Bachelor of Science (BS)**

Engineering is the creative application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Entertainment engineering is an engineering discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and civil engineering to the art of entertainment. The Bachelor of Science in Entertainment Engineering and Design provides two academic paths for students who are interested in pursuing the interdisciplinary fusion of engineering and the fine arts that will allow them to succeed in the entertainment industry.

Please see the UNLV Entertainment Engineering and Design department web page at [www.eed.egr.unlv.edu/](http://www.eed.egr.unlv.edu/) for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Engineering Advising Center at <http://engineering.unlv.edu/advising/>

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Design Technology Option**

### ***Learning Outcomes***

To achieve these objectives and goals, each graduate of the Entertainment Engineering Technology and Design program will attain the following outcomes before graduation:

1. Appropriate technical knowledge and skills
  - a. an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
  - b. an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities
  - c. an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
  - d. an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
  - e. an ability to identify, analyze, and solve broadly-defined engineering technology problems
2. Appropriate fine art knowledge and skills
  - a. knowledge and comprehension of entertainment design principles and concepts
  - b. an ability to use technology to communicate through art
  - c. an ability to express visual concepts and ideas in a creative manner at a professional level
  - d. an ability to demonstrate appropriate technical knowledge and skills of various artistic mediums
3. Appropriate interpersonal skills
  - a. an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
  - b. an ability to function effectively as a member or leader on a technical team

4. The knowledge and skills to be a responsible citizen
  - a. an understanding of the need for and an ability to engage in self-directed continuing professional development
  - b. an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
  - c. a knowledge of the impact of engineering technology solutions in a societal and global context
  - d. a commitment to quality, timeliness, and continuous improvement

## Program Objectives

The educational objectives of the Bachelor of Science in Entertainment Engineering Technology and Design is to educate students so that they can work in the design, production, installation, and operation of entertainment devices, systems, and venues.

## Program Goals

To achieve these objectives, the Entertainment Engineering and Design: Technology Option program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

## Engineering Option

### Learning Outcomes

To achieve these objectives and goals, each graduate of the Entertainment Engineering and Design program will attain the following outcomes before graduation:

1. The appropriate technical knowledge and skills
  - a. An ability to apply knowledge of mathematics, science, and engineering
  - b. An ability to design and conduct experiments, as well as to analyze and interpret data
  - c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
  - d. An ability to identify, formulate, and solve engineering problems
  - e. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
2. Appropriate fine art knowledge and skills
  - a. knowledge and comprehension of entertainment design principles and concepts
  - b. an ability to use technology to communicate through art
  - c. an ability to express visual concepts and ideas in a creative manner at a professional level
  - d. an ability to demonstrate appropriate technical knowledge and skills of various artistic mediums
3. The appropriate interpersonal skills
  - a. An ability to communicate effectively
  - b. An ability to function on multidisciplinary teams
4. The knowledge and skills to be responsible citizens
  - a. An understanding of professional and ethical responsibility
  - b. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

- c. A recognition of the need for, and an ability to engage in life-long learning
- d. A knowledge of contemporary issues

## Program Objectives

The educational objectives of the Bachelor of Science in Entertainment Engineering and Design: Engineering Option is to educate students so that they can work in the entertainment engineering field as it applies to the design, manufacture, and control of structures, machines, processes, and systems used in the entertainment industry.

## Program Goals

To achieve these objectives, the Entertainment Engineering and Design program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

## University Graduation Requirements

• Please see Graduation Policies for complete information  
Entertainment Engineering and Design

Degree Requirements.....Total: 135-141 Credits  
(see notes 1-3 below)

General Education Requirement..... Subtotal: 33-36 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
(see note 5)

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society
- or

- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists  
US Constitution

- HIST 101 - United States: Colonial Period to 1877
- HIST 106 - European Civilization Since 1648

Nevada Constitution

- HIST 102 - United States Since 1877
- HIST 217 - Nevada History
- PSC 100 - Nevada Constitution

Mathematics

Fulfilled within the major.

Distribution Requirement..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - PHIL 242 - Ethics For Engineers and Scientists (see note 5)
  - COM 216 - Survey of Communication Studies
  - ART 101 - Drawing I
- Social Science: 9 credits
  - ECON 190 - Global Economics (see note 4)
  - EGG 307 - Engineering Economics
  - One social science elective course chosen to satisfy the

Multicultural Requirement

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required



These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

(see note 4)

Major Requirements - BS in Entertainment Engineering and Design

Major - Design Technology Option - Subtotal: 102-103 Credits

Required Mathematics, and Natural Science Courses.... Credits: 19

- MATH 181 - Calculus I Fulfills the Mathematics General Education Requirement
- MATH 182 - Calculus II
- STAT 152 - Introduction to Statistics
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I
- PHYS 152 - General Physics II
- PHYS 152L - General Physics II

Required Entertainment Design Courses ..... Credits: 24

- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures
- EED 210 - Multi-Media Design
- EED 220 - Design for Live Entertainment
- EED 250 - History of Entertainment and Technology
- AAL 270 - Design Communication
- THTR 200 - Introduction to Design/Technology

Required Seminars..... Credits: 8

- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 400 - Entertainment Engineering and Design Seminar IV

Required Entertainment and Engineering

Technology Science Courses..... Credits:19

- CEM 250 - Construction Materials and Methods
- ABS 341 - Structures for Architects I
- CEM 457 - Project Management

or

- CEE 409 - Engineering Project Management
- CS 135 - Computer Science I
- CpE 100 -Digital Logic Design I
- CpE 200 - Digital Logic Design II

Entertainment Engineering Technology Tracks ..... Credits: 17-18

Complete two of the three tracks listed below:

Automation..... Credits: 8

- EE 292 - Fundamentals of Electrical & Computer Engineering
- CS 202 - Computer Science II
- CpE 200L - Digital Logic Design II Laboratory
- CpE 310L - Embedded Systems Design Laboratory for EE

Structural Design and Rigging..... Credits: 9

- CEM 270 - Construction Engineering Mechanics
- CEM 370 - Steel and Wood Design in Construction
- EED 320 - Rigging and Structural Design Principles

Entertainment Venue Design..... Credits: 9

- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II
- EED 451 - Entertainment Venue Design

Fine Arts Electives..... Credits: 9

Complete nine credits from the courses listed below:

- AAD 180 - Design Foundation I
- ART 107 - Design Fundamentals I

- ART 156 - Design Fundamentals III
- ART 216 - Sculpture I
- ART 243 - Digital Imaging I
- GRC 250 - Design & Media Studio I
- ART 419 - Foundry Sculpture
- \* MUS 231 - Recording Technology
- THTR 204 - Theatre Technology I
- THTR 404 - Theatre Technology II

Required Internship and Capstone ..... Credits: 6

- EED 493 - Internship in EED
- EED 497 - Senior Design I
- EED 498 - Senior Design II

Major Requirements - BS in Entertainment Engineering and Design

- Engineering Option - Subtotal: 107 Credits

Required Mathematics, and Natural Science Courses.... Credits: 33

- MATH 181 - Calculus I Fulfills the Mathematics General Education Requirement
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 431 - Mathematics for Engineers and Scientists I
- MATH 432 - Mathematics for Engineers and Scientists II
- STAT 463 - Applied Statistics for Engineers
- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Required Entertainment Design Courses ..... Credits: 6

- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures

Required Seminars..... Credits: 4

- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 400 - Entertainment Engineering and Design Seminar IV

Required Entertainment Engineering Science Courses .. Credits: 43

- CEE 241 - Statics
- CEE 370 - Engineering Mechanics of Deformable Bodies
- CEE 370L - Engineering Mechanics of Deformable Bodies Laboratory
- CEE 381 - Structural Analysis I
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CpE 100 - Digital Logic Design I
- CpE 200 - Digital Logic Design II
- CpE 200L - Digital Logic Design II Laboratory
- CpE 310L - Embedded Systems Design Laboratory for EE
- EE 292 - Fundamentals of Electrical & Computer Engineering
- EE 360 - Signals and Systems I
- EE 370 - Classical Feedback and Control Systems

or

- ME 421 - Automatic Controls
- ME 242 - Dynamics
- ME 380 - Fluid Dynamics for Mechanical Engineers

Entertainment Engineering Tracks..... Credits: 18

Complete any two of the tracks listed below:

Structural Engineering ..... Credits: 9

- CEE 346 - Civil Engineering Materials
- CEE 432 - Geological Engineering

or

- CEE 444 - Steel Structural Design

Complete any 3 credits from the courses listed below:

- AAD 180 - Design Foundation I
- AAI 322 - Interior Construction and Detailing
- THTR 200 - Introduction to Design/Technology
- THTR 204 - Theatre Technology I

Computer Science Internet ..... Credits: 9

- CS 218 - Introduction to Systems Programming
- CS 341 - Internet Programming
- CS 341L - Internet Programming Lab
- ART 107 - Design Fundamentals I

Computer Science Graphics ..... Credits: 9

- MATH 365 - Computational Linear Algebra
- CS 480 - Computer Graphics

Complete any 3 credits from the courses listed below:

- ART 108 - Design Fundamentals II-3D
- ART 216 - Sculpture I
- ART 243 - Digital Imaging I

Robotics ..... Credits: 9

- ME 425 - Robotics
- EE 472 - Digital Control Systems

or

- ME 429 - Computer Control of Machines and Processes

Complete any 3 credits from the courses listed below:

- ART 216 - Sculpture I
- ART 419 - Foundry Sculpture

THTR 200 - Introduction to Design/Technology

Acoustics ..... Credits: 9

- ME 434 - Noise Control
- MUS 231 - Recording Technology I
- THTR 407 - Sound Design for the Theatre

With consent of faculty advisor, THTR 404 - Theatre Technology II can be substituted for any Fine Arts course in Structural Engineering, Robotics and Acoustics tracks.

Required Capstone ..... Credits: 3

- EED 497 - Senior Design I
- EED 498 - Senior Design II

### Notes:

1. Regardless of catalog of graduation, students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
2. All prerequisite courses must be completed with a grade of C or better before the subsequent course can be taken.
3. All courses counted towards the degree must be completed with a grade of C or better.
4. ECON 190 satisfies the International requirement. The one free 3-credit social science elective should be selected to satisfy the Multicultural requirement.
5. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

## Information Technology Certificate

The completion of the IT certificate equips students with IT skills such as advanced web development, database management techniques, human computer interaction, information assurance, and security.

GPA: 2.5

Required Certificate Courses ..... Total Credits: 15

- CS 140 - Computing Languages
- CS 270 - Introduction to Internet & World Wide Web
- CS 270L - Introduction to Internet & World Wide Web - Lab
- CS 443 - Information Assurance
- ITE 444 - Information Technology and Human Computer Interaction
- ITE 451 - Managing Big Data and Web Databases

## Technology Commercialization Certificate

Admissions Requirements: 2.50 GPA

Courses Include ..... Total Credits: 12

This certificate program provides students with the necessary foundational knowledge in technology commercialization. Students will learn fundamentals of engineering technology, engineering economics, how to create business plans, and the steps required to commercialize and launch a technology into markets by creating a technology commercialization plan.

- EGG 100 - People and Technology
- EGG 307 - Engineering Economics
- EGG 460 - Technology Commercialization
- MGT 493 - Seminar in Entrepreneurship

or

- MGT 497 - Business Plan Creation

## Unmanned Aircraft System (UAS) Certificate

Admissions Requirements: 2.50 GPA

Courses Include ..... Total Credits: 13

This certificate program provides students with the necessary foundational knowledge in UAS operation as well as privacy issues and other legal ramifications in their usage. Students shall acquire key technical skills and procedures through electronic simulator operations as well as an actual flight of a small UAS.

- ME 110 - Private Pilot Ground School
- EGG 370 - UAS Design and Applications
- LAW 432 - Privacy, Publicity and Defamation
- EGG 470 - UAS Simulation and Testing

## Web Development Certificate

Total ..... Credits: 9

The completion of the AWD certificate equips students with the skills to develop and maintain web sites. The courses are designed to help students understand the data modeling, view building, and control mechanism.

- CS 140 - Computing Languages
- CS 270 - Introduction to Internet & World Wide Web
- CS 270L - Introduction to Internet & World Wide Web - Lab
- ITE 451 - Managing Big Data and Web Databases

## Solar & Renewable Energy Minor

Students will choose between the Policy Track or the Solar Engineering and Sciences Track.

### Policy Track

(21 credits) Minimum GPA: 2.0

Available to all baccalaureate majors, the Solar and Renewable

Energy minor with a Policy Concentration is intended to provide students with, in its core required courses, knowledge of global environmental problems and different types of solar energy utilization and competence in sustainable building design. In the Solar Policy electives, students will develop competence in environmental history, policy, and science.

### **Solar Engineering & Sciences Track**

(21-23 credits) Minimum GPA: 2.0

Available primarily to baccalaureate science and engineering majors, the Solar and Renewable Energy minor-Engineering and Sciences Concentration, is intended to provide students with, in its core required courses, knowledge of global environmental problems and different types of solar energy utilization, competence in both solar thermal and photovoltaic system design and sustainable building design. In the Solar Engineering and Sciences electives, students will develop technical depth in the scientific fundamentals and engineering design principles of renewable energy.

Required Minor/Concentration Courses - Policy Track:

- ME 477 - Solar and Renewable Energy Utilization
- ENV 101 - Introduction to Environmental Science

and

- AAE 330 - Design With Climate

or

- AAE 435 - Developing Sustainable Design

Required Minor/Concentration Courses - Solar Engineering & Sciences Track:

- ME 477 - Solar and Renewable Energy Utilization
- ENV 101 - Introduction to Environmental Science

Any 400-level EE course.

Any 400-level ME course.

Policy Minor Track - Courses Include:

Choose one course in each of the following four areas:

Choose One:

Any 100-level AAE course.

- ENV 206 - Introduction to Climate Change
- GEOL 110 - Global Warming
- GEOL 303 - Global Environmental Change

Choose One:

- ENV 407 - Environment and Society

or

- SOC 407 - Environment and Society
- ENV 420 - Environmental Impact Analysis
- NRES 411 - Environmental Law

Choose one:

- HIST 441 - American Environmental History
- HIST 443 - Comparative Environmental History

Choose One:

- PSC 320 - Policy Analysis
- PSC 321 - Analyzing Policy Issues
- PSC 403A - Natural Resource Policy
- PSC 405Q - Global Ecopolitics
- PSC 403B - Energy Politics and Policy

Solar Engineering & Sciences Minor Track - Courses Include:

Choose One:

- AAE 330 - Design With Climate
- AAE 435 - Developing Sustainable Design
- ABS 332 - Environmental Control Systems II
- ABS 443 - Interior Lighting Design

Any 400-level CEM course.

Choose 2 of the following courses that are NOT part of your major or pre-requisite requirements.

Note: If you take the 1 credit ME 315 lab, you must take 2 other courses.

- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 421 - Physical Chemistry I
- CHEM 422 - Physical Chemistry II
- CHEM 431 - Advanced Inorganic Chemistry
- EE 292 - Fundamentals of Electrical & Computer Engineering
- EE 320 - Engineering Electronics I
- EE 320L - Engineering Electronics I Laboratory
- EE 340 - Introduction to Electrical Power Engineering
- EE 340L - Electric Power Engineering Laboratory
- EE 450 - Solid State Devices
- EE 450L - Solid State Characterization Laboratory
- EE 453 - Introduction to Nanotechnology
- ME 311 - Engineering Thermodynamics I
- ME 314 - Introduction to Heat Transfer
- ME 315 - Thermal Engineering Laboratory
- ME 415 - Design of Thermal Systems
- ME 418 - Air Conditioning Engineering Systems
- ME 419 - Advanced HVAC and Energy Conservation Systems
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 461 - Light and Physical Optics
- PHYS 462 - Modern Optics and Photonics

### **Technology Commercialization Minor**

This minor is intended for all undergraduate students of the College of Engineering. The minor consists of curriculum covering prototyping, commercialization, and business-related concepts. The minor exposes engineering majors to elements of technology commercialization with the relevant aspects of both entrepreneurship and commercialization within established enterprises. The minor is coupled with senior design experience. The minor will culminate in a business plan competition.

Required Courses.....Total Credits: 20-21

- EGG 101 - Introduction to Engineering Experience
- ECON 102 - Principles of Microeconomics

or

- ECON 190 - Global Economics
- COM 101 - Oral Communication

or

- COM 216 - Survey of Communication Studies
- EGG 307 - Engineering Economics
- EGG 460 - Technology Commercialization
- MGT 493 - Seminar in Entrepreneurship

or

- MGT 497 - Business Plan Creation
- Engineering or Computer Science Capstone (Senior Design) can be met with any of the following options:
- (option a) CEE 498 - Civil Engineering Capstone Design

or

- (option b) CS 472 - Software Product Design and Development I
- or
- (option c) CS 495 - Senior Project Development I
- and
- CS 496 - Senior Project Development II
- or
- (option d) EE 497 - Senior Design Project I
- and
- EE 498 - Senior Design Project II
- or
- (option e) EED 497 - Senior Design I
- and
- EED 498 - Senior Design II
- (option f) ME 497 - Senior Design Project I

All courses included in the minor must be passed with grades of C or better.

### **Unmanned Aircraft System (UAS) Minor**

Admissions Requirements: 2.50 GPA

Courses Include ..... Total Credits: 21

Required Minor Courses: UAS Core Courses (9 cr.)

- EGG 370 - UAS Design and Applications
- EGG 470 - UAS Simulation and Testing
- LAW 432 - Privacy, Publicity and Defamation

Required Minor/Concentration Electives: 12 unique credits of from one of the following specialty tracks. Mixing of credits between different specializations can be done with the consent of the program coordinator. No more than nine (9) credits can be counted toward major degree.

Autonomous System Design Track:

- ME 110 - Private Pilot Ground School
- ME 242 - Dynamics
- ME 380 - Fluid Dynamics for Mechanical Engineers
- ME 421 - Automatic Controls

or

- EE 370 - Classical Feedback and Control Systems
- ME 425 - Robotics
- ME 446 - Composite Materials
- ME 482 - Aerodynamics
- EE 475 - Autonomous Systems and Control

Control Track:

- EE 360 - Signals and Systems I
- EE 370 - Classical Feedback and Control Systems
- EE 472 - Digital Control Systems
- EE 475 - Autonomous Systems and Control

Communication Track:

- EE 360 - Signals and Systems I
- EE 361 - Signals and Systems II
- EE 432 - Antenna Engineering
- EE 460 - Introduction to Communication Systems
- EE 466 - Wireless and Mobile Communication Systems
- CpE 400 - Computer Communications Networks

HCI (Human-Computer Interaction) Track:

- CS 135 - Computer Science I
- CS 351 - Introduction to Multimedia
- CS 420 - Human-Computer Interaction
- CS 465 - Computer Networks I
- CS 469 - Introduction to Digital Image Processing
- CS 482 - Artificial Intelligence

Minor must be completed by date of graduation.

### **EGG 100 - People and Technology**

Problems and issues caused by and solved by applications of technology. Such issues as natural disasters, populations, food supply, distribution of energy, and other topics considered. Note(s): Satisfies the General Education Core Science requirement. 3 credit(s)

### **EGG 101 - Introduction to Engineering Experience**

Seminar: Introduction to UNLV learning outcomes and the programs that reside within the College of Engineering. Topics include professional ethics, technical communication, the design process, and technology's impact on a global society. 2 credit(s)

### **EGG 102 - Introduction to Engineering Design**

Engineering problems for math. Introduces the design process to include team design, problem formulation, statement of criteria, brainstorming, decision matrix, preparation of specifications and presentation of results. Corequisite(s): ENG 101. Prerequisite(s): MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better. 2 credit(s)

### **EGG 102L - Introduction to Design Laboratory**

Introduction to techniques used in the design process: sketching, dimensioning, brainstorming, decision trees, decision matrices, PC. software packages. Corequisite(s): EGG 102. 1 credit(s)

### **EGG 130 - Control of Environmental Pollution**

(Same as ENV 130.) Introduction to pollution control methods, beginning with water-borne diseases and sanitation. Progression to mass balance concepts and development of pollution control measures designed to improve air and water quality and minimize risk of exposure to hazardous wastes. Not for credit towards engineering degree. Prerequisite(s): CHEM 105, BIOL 100, MATH 128. 3 credit(s)

### **EGG 300 - Quality Control and Quality Improvement Engineering**

Quality assurance as a system problem. Components and theory of the system presented including quality fundamentals, process definition, basic statistics, sampling distributions, control charts, assignable causes, diagnosing a process, and process improvement. Current quality philosophies discussed. Prerequisite(s): MATH 182 and junior standing. 3 credit(s)

### **EGG 307 - Engineering Economics**

Engineering economic analysis for the evaluation of technical alternatives and necessary economic trade-offs made in planning, designing, and operating engineering systems. Prerequisite(s): Completion of 30 credits (Sophomore standing) and MATH 181 with a grade of C or better. 3 credit(s)

### **EGG 412 - Engineering Law**

Survey course in legal principles and theory for contracts, methods of doing business, patents, and copyrights. Topics include: product liability, nuisance, defamation, and other torts. Prerequisite(s): Senior standing in engineering. 3 credit(s)

### **EGG 417 - Mold Making and Casting**

Advanced mold making and casting techniques culminating in 3-D objects made in clay, porcelain, aluminum, bronze, and plaster. Prerequisite(s): ME 220. 3 credit(s)

### **EGG 450 - Solar and Renewable Energy Utilization**

Introduction to renewable energy applications. Includes environmental motivations, historical perspectives, solar photovoltaic and thermal applications, implications in building designs, wind energy, biomass, alternative fuels, geothermal power utilization, utility considerations, and political and economic factors. Prerequisite(s): Admission to the Solar and Renewable Energy Minor and upper division standing. 3 credit(s)

### **EGG 451 - Ergonomics**

Design of the work environment to facilitate the safety of the worker and the improvement of work performance, with emphasis on the biomechanical requirements and musculoskeletal consequences of work activity. Prerequisite(s): ME 242 and ME 302, or PHYS 151 and 152. 3 credit(s)



**EGG 460 - Technology Commercialization**

Combines the perspectives of engineering design, design for manufacturing, industrial design, and technology market identification into a unified product design method. Instruction and hands-on examples of customer needs to quality measures, concept generation, prototype optimization, and market introduction. Prerequisite(s): ME 242 or EE 221 or CEE 241 or CS 370 or instructor permission. All prerequisites should be completed with a grade of C or better. 3 credit(s)

**EGG 470 - UAS Simulation and Testing**

The course begins with an overview of experimental flight test terms, covers experimental test flight planning and procedures along with simulator operation as well as an actual flight of a small UAS. Successful completion prepares the student to apply for a Federal Aviation Administration Repairman certificate. Prerequisite(s): EGG 370 with a grade of C or better or a consent of instructor. 3 credit(s)

**ITE 444 - Information Technology and Human Computer Interaction**

This Course will teach the fundamental concepts and techniques for design, implementation, and evaluation of human computer interfaces for information technology applications. Topics include foundations of human-computer interaction, human-centered design, understanding users, affective aspects, data gathering, prototyping, and evaluation of user int. Prerequisite(s): CS 270 and CS 270L. 3 credit(s)

**LAW 432 - Privacy, Publicity and Defamation**

Discusses constitutional right to privacy, the four privacy torts, contrast between right of privacy and right against defamation, and right of publicity. 3 credit(s)

**ME 477 - Solar and Renewable Energy Utilization**

Formerly Listed as EGG 450.

Introduction to renewable energy applications. Includes environmental motivations, historical perspectives, solar photovoltaic and thermal applications, implications in building designs, wind energy, biomass, alternative fuels, geothermal power utilization, utility considerations, and political and economic factors. Prerequisite(s): Admission to the Solar and Renewable Energy Minor and upper division standing. Note(s): This course is crosslisted with ME 677. Credit at the 600-level requires additional work. 3 credit(s)

# Entertainment Engineering and Design

Engineering is the creative application of scientific and mathematical principles to the design, manufacture, and control of structures, machines, processes, and systems. Entertainment engineering is an engineering discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and civil engineering to the art of entertainment. The Bachelor of Science in Entertainment Engineering and Design provides two academic paths for students who are interested in pursuing the interdisciplinary fusion of engineering and the fine arts that will allow them to succeed in the entertainment industry.

**Entertainment Engineering and Design Minor**

Entertainment engineering is an engineering discipline that creates the highly technical designs that the entertainment industry has come to demand. Entertainment engineering involves the application of traditional engineering disciplines including computer, electrical, mechanical and civil engineering to the art of entertainment.

Non-EED students may declare a minor through the advising centers of either the College of Engineering or the College of Fine Arts. A total of 30 credits are required for a minor in Entertainment Engineering and Design. 12 credits must come from the provided list of required classes and 18 credits from one of the two tracks. Work in the minor must be completed with a 2.75 or higher GPA by the date of graduation in the student's major field of study. All work must be completed in residence at UNLV.

**Required Minor/Concentration Courses**

Must take the following 12 credits

- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures
- EGG 307 - Engineering Economics
- THTR 404 - Theatre Technology II

**Engineering Track**

Required Minor Engineering Track Courses 12 credits

Complete the following:

- CS 135 - Computer Science I
  - CpE 100 - Digital Logic Design I
  - ME 242 - Dynamics
  - EE 292 - Fundamentals of Electrical & Computer Engineering
- or
- EE 320 - Engineering Electronics I

Required Minor/Concentration Electives:

**Electives**

Complete 6 credits from any of the following courses:

- CEE 346 - Civil Engineering Materials
- CEE 432 - Geological Engineering
- CEE 444 - Steel Structural Design
- CS 341 - Internet Programming
- CS 341L - Internet Programming Lab
- CS 480 - Computer Graphics
- ME 425 - Robotics
- ME 434 - Noise Control
- EE 360 - Signals and Systems I
- EE 472 - Digital Control Systems

- THTR 407 - Sound Design for the Theatre

Design/Technology Track

Required Minor Design/Technology Track Courses 7 Credits

Complete the following for 4 credits

- MATH 182 - Calculus II

Complete 3 credits from any of the following courses:

- CS 135 - Computer Science I
- CpE 100 - Digital Logic Design I
- CEE 241 - Statics
- EE 292 - Fundamentals of Electrical & Computer Engineering

Required Minor/Concentration Electives:

Complete 11 credits from any of the following courses:

- ART 419 - Foundry Sculpture
- ABS 341 - Structures for Architects I
- CEE 409 - Engineering Project Management
- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II
- CEM 370 - Steel and Wood Design in Construction
- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 320 - Rigging and Structural Design Principles
- EED 400 - Entertainment Engineering and Design Seminar IV
- EED 451 - Entertainment Venue Design
- THTR 407 - Sound Design for the Theatre

## ***Entertainment Engineering and Design***

### **EED 100 - Entertainment Engineering and Design Seminar I**

Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics. May be repeated for a maximum of two credits. 1 credit(s)

### **EED 110 - Material Science and Fabrication Techniques**

Provides an overview of the many types of materials currently used in the entertainment industry; the science of these materials; fabrication methods using these materials; and hands-on experience with these materials and techniques. Corequisite(s): EED 100. Prerequisite(s): MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACTmath score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better. 3 credit(s)

### **EED 111 - Basic Kinetic Structures**

Provides an overview of the many types of kinetic structures currently used in the entertainment industry; the science of these structures; fabrication methods using these structures; and hands-on experience working with these structures. Corequisite(s): MATH 181 Prerequisite(s): EED 110 with a grade of C or better. 3 credit(s)

### **EED 120 - Intro to Entertainment Technologies for the Non-Major**

Provides an overview of the many types of technology currently employed in the entertainment industry. Emphasis will be given to examples developed in the past 10 years. 3 credit(s)

### **EED 130 - Entertainment Visualization**

Fundamental concepts of computer visualization applicable to the entertainment industry. Corequisite(s): EED 111. Prerequisite(s): EED 100 and EED 110. All prerequisites must be completed with a grade of C or better. 3 credit(s)

### **EED 200 - Entertainment Engineering and Design Seminar II**

Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics. May be repeated for a maximum of two credits.

Lab/Lecture/Studio Hours EED 100 with a grade of C or better. Note(s): Required of all majors. To be taken in sophomore year. 1 credit(s)

### **EED 210 - Multi-Media Design**

Focuses on the conceptual, technical and visual design skills required to create multimedia environments for the entertainment industry. Corequisite(s): EED 200. Prerequisite(s): EED 111 and MATH 181. All prerequisites must be completed with a grade of C or better. 3 credit(s)

### **EED 220 - Design for Live Entertainment**

Introduction to the aesthetic principles of entertainment design. Study and practice of design for live entertainment through controlled use of color, line, mass, space, and light. Prerequisite(s): EED 200 and EED 210. All prerequisites must be completed with a grade of C or better. 3 credit(s)

### **EED 250 - History of Entertainment and Technology**

Study of the evolution of entertainment in the 19th century to the present as an art form and as a science. 3 credit(s)

### **EED 300 - Entertainment Engineering and Design Seminar III**

Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics. Prerequisite(s): EED 200 with a grade of C or better. May be repeated for a maximum of two credits. Note(s): Required of all majors. To be taken in junior year. 1 credit(s)

### **EED 310 - Product Design I**

Students will learn to synthesize technology and aesthetics in the service of the entertainment industry. Emphasis is placed on conceptual thinking, creativity, risk-taking, non-fad-driven aesthetic appropriateness, personal motivation, networking, and interdisciplinary flexibility and co-operation. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

### **EED 317 - Entertainment Sound II**

This is the intermediate-level course for sound design and technology in the live entertainment industry. Students will become familiar with live sound reinforcement theory and techniques. Prerequisite(s): EED 217 or THTR 217. Note(s): Same as THTR 317. 3 credit(s)

### **EED 320 - Rigging and Structural Design Principles**

Investigation of rigging systems in the entertainment industry and their demands on the structural design of a venue. Focuses on current trends in the entertainment industry. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

### **EED 330 - Programmable Systems for the Entertainment Industry**

Investigation of programmable logic systems in the entertainment industry with emphasis on current industry practices. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

### **EED 400 - Entertainment Engineering and Design Seminar IV**

Acquaints students with current trends and practices in the entertainment industry. Weekly discussions, guest speakers or presentations on current entertainment topics. Prerequisite(s): Prerequisite(s): EED 300 with a grade of C or better. May be repeated for a maximum of two credits. Note(s): Required of all majors. To be taken in senior year. 1 credit(s)

### **EED 410 - Design Aesthetics in Entertainment Design**

Examination of the aesthetic principles of entertainment design. Study and practice of design for the stage through controlled use of color, line, mass, space, and light. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

**EED 417 - Entertainment Sound III**

This is an advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with sound system design and installation in live entertainment venues. Prerequisite(s): EED 317 or THTR 317. Note(s): Same as THTR 417. 3 credit(s)

**EED 418 - Entertainment Sound IV**

A continuation of the advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with the business of sound system design and installation in live entertainment venues. Students will also become familiar with effective system planning and integration from the end-user point of view. Prerequisite(s): EED 417 or THTR 417. Note(s): Same as THTR 418. 3 credit(s)

**EED 420 - Entertainment Product Design II**

Students will learn to synthesize technology and aesthetics in the service of the entertainment industry. Emphasis is placed on conceptual thinking, creativity, risk-taking, non-fad-driven aesthetic appropriateness, personal motivation, networking, and interdisciplinary flexibility and co-operation. Prerequisite(s): EED 310 with a grade of C or better. 3 credit(s)

**EED 431 - Control Systems for the Entertainment Industry**

Investigation of hydraulic, electrical and show control systems in the entertainment industry with emphasis on current industry practices. Prerequisite(s): EED 330 with a grade of C or better. 3 credit(s)

**EED 432 - Rigging Systems for the Entertainment Industry**

Investigation of rigging systems in the entertainment industry with emphasis on current industry practices. Prerequisite(s): EED 320 with a grade of C or better. 3 credit(s)

**EED 441 - Motion Capture**

Students will learn the technology used to create a 3D representation of a live performance or action through the use of modern technologies. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

**EED 442 - Animatronics Techniques**

Automata and Robots support humans, and can and interact with them. Introduces the technologies that enable computer-driven stagecraft, concepts of feedback control, robot control, and the computer technologies (hardware and software) to coordinate and automate sequences of events. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

**EED 451 - Entertainment Venue Design**

Students will learn the principles and requirements used in designing entertainment venues with emphasis on current practices. Prerequisite(s): EED 220 with a grade of C or better. 3 credit(s)

**EED 491 - Special Topics in EED**

Topics announced in the class schedule each year. May be used for EED degree requirement with permission from program coordinator. Prerequisite(s): EED 111 with a grade of C or better. May be repeated to a maximum of nine credits. 1-4 credit(s)

**EED 493 - Internship in EED**

Internship at regional/national centers of entertainment activity. Prerequisite(s): EED 220 with a grade of C or better. May be repeated to a maximum of nine credits. 1-4 credit(s)

**EED 495 - Supervised Individual Study**

Tutorial study of special problems in entertainment engineering and design. Student submits a detailed project description agreed upon first by student and instructor and then by two other members of the EED faculty. May not be used in meeting the core requirement credits. Prerequisite(s): Junior or senior standing; permission in advance of registration from the program coordinator/advisor. May be repeated to a maximum of nine credits. 1-4 credit(s)

**EED 497 - Senior Design I**

The first of two capstone design courses for Entertainment Engineering students. Students will begin a major design experience that uses knowledge and skills from prior courses and incorporates appropriate engineering standards and multiple realistic constraints. Students will begin the design process including research, conceptualization, feasibility assessment, and establishing design requirements. Corequisite(s): EED 400. Prerequisite(s): EED 300 with a grade of C or better and consent of faculty advisor. 1 credit(s)

**EED 498 - Senior Design II**

The second of two capstone design courses for Entertainment Engineering students. Students complete the major design experience that began in EED 497. Students will complete the design process including completing a preliminary design and establishing design requirements, and analyzing, producing, testing and presenting the design. Prerequisite(s): EED 497 with a grade of C or better. 2 credit(s)

# Aerospace Studies Department

## ***Introduction***

Air Force Reserve Officer Training (AFROTC) is an educational program designed to give men and women the opportunity to become Air Force officers while completing their college degrees. The Air Force ROTC program is focused on preparing cadets to become leaders in today's high-tech Air Force. Upon completion of the AFROTC program and the attainment of a baccalaureate degree, the graduate receives a commission as an officer in the U.S. Air Force. A monthly subsistence is provided during the junior and senior years. Scholarships are awarded on a competitive basis in increments of four, three, and two years.

## ***Program Eligibility***

The program is open to qualified men and women representing of all academic majors of the university. To qualify for membership in the AFROTC program, a student must be a citizen of the United States and by their junior year be at least 17 years of age, physically qualified, and enrolled as a full-time student. All UNLV students are eligible to register for AFROTC academic courses even if they are not members of AFROTC. UNLV students who desire a varied aerospace education without seeking a commission are encouraged to enroll in classes on a space-available basis for the purpose of academic credit only. These students are not required to attend traditional AFROTC activities.

## ***AFROTC Scholarships***

Competitive scholarships are made directly to students by the Air Force in accordance with Department of Defense policies. All AFROTC scholarships and stipends involve transactions between the programs and the student without university intervention. Although the university will not supplement AFROTC scholarships directly, students enrolled in the AFROTC program are eligible to apply for merit-based university and college scholarships as well as need-based and merit-based state and federal assistance programs.

## ***Aerospace Studies Minor***

### ***Program Objectives***

The objective of the Air Force ROTC program is to educate and train cadets to become outstanding leaders in the United States Air Force and to guide and motivate cadets to embrace the Air Force core values of "integrity first, service before self, and excellence in all we do."

### ***Program Overview***

AFROTC is typically a four-year program, but it is possible to complete the core requirements in as little as three years. A student with prior active-duty military experience can complete the program in just over two years.

The program is divided into two distinct sections, the General Military Course (GMC) and the Professional Officer Course (POC).

### ***General Military Course***

The first two years of the Air Force ROTC program, the General Military Course, consist of one hour of classroom work and two hours of leadership laboratory each week. The General Military Course is an opportunity for students not on an Air Force ROTC scholarship to try out the program with no obligation. After completing General Military Course requirements, if you wish to compete for entry into

the last two years of the program, the Professional Officer Course, you must do so under the requirements of the Professional Officer Course selection system. This system uses qualitative factors, such as grade point average, physical fitness scores, unit commander evaluation and aptitude test scores to determine if you have officer potential. After selection, you must successfully complete a four-week field training encampment (during the summer break prior to your junior year in the program) before entering the Professional Officer Course. Once you are enrolled in the Professional Officer Course, you must attend a three-hour class each week and continue to participate in the weekly leadership laboratory.

## ***Professional Officer Course***

In the Professional Officer Course, you apply what you have learned in the General Military Course and at field training. In the Professional Officer Course, you actually conduct the leadership laboratories and manage the unit's cadet corps. Each unit has a cadet corps based on the Air Force organizational pattern of flight, squadron, group and wing. Professional Officer Course classes are small. Emphasis is placed on group discussions and cadet presentations. Classroom topics include management, communication skills and national defense policy. Once you have enrolled in the Professional Officer Course, you enter into a contract with the Air Force stating that you agree to complete the remainder of the program and commission into the Air Force. As part of the contract, you are enlisted into the Air Force Reserve and assigned to the Obligated Reserve Section. This entitles you to a monthly \$300-\$500 non-taxable stipend during the academic year.

Partnership with College of Southern Nevada (CSN) or Nevada State College (NSC).

Students enrolled full-time at either the College of Southern Nevada (CSN) or Nevada State College (NSC) may enroll in the AFROTC program at their respective colleges, while attending AES classes at UNLV.

## ***Program Objectives***

**Department Policies:** Students pursuing a commission in the USAF must enroll in the class and leadership lab. Students not pursuing a commission can enroll only in the class.

**Textbooks, Uniforms and Equipment:** The U.S. Air Force provides students with required textbooks at no additional expense. Uniforms, uniform items, and equipment will also be issued to qualified cadets at no additional expense.

Uniforms are for use during AES class, Leadership Lab, and other training conducted by the program. Uniforms will be turned in at the end of each semester.

## ***Aerospace Studies Minor***

(16 credits)

AES 110/120, 111/121, 230/240, 231/241, 351/361, 352/362, 471/481, 472/482. Sixteen credits of AES classes: 100 and 200 level classes are not prerequisites and can be taken concurrently with any other AES classes for students not pursuing commission and therefore not eligible to enroll in the labs.



## Aerospace Studies Department Minor

### Air Force Reserve Officer Training Corps (ROTC)

The Air Force Reserve Officer Training Corps (Air Force ROTC) is an educational program designed to give men and women the opportunity to become Air Force officers while completing their college degrees. The Air Force ROTC program is focused on preparing cadets to become leaders in today's high-tech Air Force. Upon completion of the AFROTC program and the attainment of a baccalaureate degree the graduate receives a commission as an officer in the US Air Force. A monthly subsistence is provided during the junior and senior years. Scholarships are awarded on a competitive basis in increments of four, three, and two years. Air Force ROTC enrollment is not restricted to individuals who wish to become commissioned officers in the USAF. Students may elect to take Air Force ROTC without seeking a commission in courses for academic credit only, earning elective credits for university degrees. These students are not required to attend the traditional AFROTC activities.

### FOUR/THREE YEAR PROGRAM

The first half of the four-year program is called the General Military Course, which is offered during a student's freshman and sophomore years. NSC and CSN students may take these courses which are offered at UNLV. This program allows students to try out Air Force ROTC for up to two years without incurring any obligation (unless they are on an Air Force ROTC scholarship). As students attend class, they learn more about the Air Force and the historical development of airpower. The last two years are called the Professional Officer Course. These junior and senior level classes, offered at UNLV, cover leadership skills and national defense policy. Students must be enrolled full time at NSC and CSN in order to take these courses and commission as second lieutenants upon successful completion of the program.

### FINANCES

Textbooks for all Air Force ROTC courses are provided by the Air Force free of charge. Students who have contracted with Air Force ROTC receive a tax-free subsistence allowance during the academic year of \$300-\$500 per month, depending on their academic year.

### AIR FORCE ROTC SCHOLARSHIPS

Air Force ROTC offers scholarships covering a student's college education for two, three, or four years. Each scholarship pays up to full tuition, laboratory fees, incidental fees, an annual book allowance up to \$600, and a tax-free subsistence allowance of at least \$300 per month. In-college scholarship opportunities are also available for students already enrolled in the Air Force ROTC program. Freshmen can earn three-year scholarships, while sophomores can earn two-year scholarships. College transferees may also apply for these scholarships. All scholarship applicants must meet the following minimum requirements:

- Be a U.S. citizen
- Be less than 31 years old as of December 31 of the year you will commission
- Meet military and physical standards
- Pass the Air Force Officer Qualifying Test
- Have a minimum cumulative GPA of 2.50

Aerospace Studies Minor - Required Courses.....Total Credits: 16  
AES 110/120, 111/121, 230/240, 231/241, 351/361, 352/362,

471/481, 472/482. Sixteen credits of AES classes; 100 & 200 level classes are not prerequisites and can be taken concurrently with any other AES classes for students not pursuing commission and therefore not eligible to enroll in the labs

### AS100 (AES 110/120) – The Foundations of the United States Air Force

*Description:* AS100 is a survey course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

*Course Objectives:* The AS100 student should know what AFROTC and the Air Force have to offer potential entrants, as well as the expectations the Air Force will set concerning core values and leadership. The student should also have a basic knowledge of what role the Air Force plays and how it is organized to support national objectives. The individual should demonstrate basic communicative skills.

### AS200 (AES 230/240) – The Evolution of USAF Air and Space Power

*Description:* A course designed to examine general aspects of air and space power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror. Historical examples are provided to show the development of Air Force distinctive capabilities (previously referred to as core competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air and space power. As a whole, this course provides the students with a knowledge-level understanding for the general employment of air and space power, from an institutional, doctrinal, and historical perspective. In addition, what the students learned about the Air Force Core Values in AS100 will be reinforced through the use of operational examples, and they will complete several writing and briefing assignments to meet Air Force communication skills requirements.

*Course Objectives:* The AS200 student should know the key terms and definitions used to describe air and space power. The individual should know the events, leaders, and technical developments that led to the evolution and employment of USAF air and space power. The individual should demonstrate basic verbal and written communication skills. The individual should know the Air Force Core Values and examples of their use throughout the evolution of USAF air and space power.

### AS 300 (AES 351/361) – Air Force Leadership Studies

*Description:* AS 300 is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

*Course Objectives:* The AS 300 cadet should comprehend selected individual leadership skills and personal strengths and weaknesses as applied in an Air Force environment. The individual should comprehend the responsibility and authority of an Air Force officer, the Air Force officer's responsibilities in the counseling and feedback process, and the selected duties and responsibilities as a subordinate leader. The individual should comprehend and apply concepts of ethical behavior as well as comprehend the selected concepts, principles, and theories of quality in Air Force leadership and management. The individual should apply listening, speaking, and writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and appropriate style.

## **AS 400 (AES 471/481) – National Security Affairs/ Preparation for Active Duty**

*Description:* AS 400 examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

*Course Objectives:* The AS 400 cadet should comprehend the basic elements of national security policy and process. The individual should comprehend the air and space power functions and competencies. Also, the individual should comprehend selected roles of the military in society and current issues affecting the military profession as well as selected provisions of the military justice system. The individual should comprehend the responsibility, authority, and functions of an Air Force commander. The individual should apply listening, speaking, and writing skills in Air Force-peculiar formats and situations with accuracy, clarity, and appropriate style. The individual should comprehend the factors, which facilitate a smooth transition from civilian to military life.

## **Leadership Laboratory (AES 111/121, 231/241, 362/362, 472/482)**

*Description:* Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. LLAB cadets are classified into one of four groups with respect to field training attendance and/or commissioning. Initial Military Training (IMT) cadets are part of the General Military Course (GMC) but are not scheduled to attend field training (normally AS100 cadets). The focus of IMT objectives/activities are to promote the Air Force way of life and help effectively recruit and retain qualified cadets. This time is spent acquainting the cadets with basic Air Force knowledge and skills to help them determine whether they wish to continue with the AFROTC program. Field Training Prep (FTP) cadets are scheduled to attend field training in the upcoming year (normally AS200 cadets). The FTP objectives provide training to ensure every cadet is mentally and physically prepared for the rigorous field training environment. Intermediate Cadet Leaders (ICL) are cadets returning from field training (normally AS300 cadets). ICL objectives/activities give cadets the opportunity to further develop the leadership and followership skills learned at field training. Every cadet position should provide the ICL the opportunity to sharpen their planning, organizational, and communication skills, as well as their ability to effectively use resources to accomplish a mission in a constructive learning environment. Senior Cadet Leaders (SCL) are cadets scheduled to be commissioned in the upcoming year (normally AS400 cadets). This time is spent on additional opportunities to develop leadership and supervisory capabilities, and prepares cadets for their first active duty assignment. Extended Cadet Leaders (ECL) are cadets whose ROTC academic requirements are complete but still have one or more terms of college left to complete. These cadets may hold special duty or regular positions within the cadet corps upon discretion of the Detachment Commander (Det CC) or Commandant of Cadets (COC).

*Course Objectives:* The IMT cadet in the LLAB program should know the principles of the Holm Center Training Manual (HCTM), Air Force customs and courtesies, dress and grooming standards, and grade structure and insignia as well as the chain of command. The individual should know the AFROTC Honor Code. The individual should know effective time management skills, the benefits of exercise and nutrition, as well as the AFROTC weight and fitness standards. The individuals will know the courtesies and procedures associated with the United States flag and know and demonstrate individual and flight drill positions and movements. Finally, they will begin to know the environment of the Air Force officer by participating in a unit formal dinner, retreat, parade, and awards ceremony.

For more information, contact:

AFROTC Detachment 004

Department of Aerospace Studies

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Las Vegas, Nevada 89154-4005

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## **Aerospace Engineering Studies**

### **AES 110 - Foundations of the United States Air Force I**

Survey course designed to introduce AFROTC cadets and prospective Air Force officers to the Air Force culture. Describes heritage and structure of the United States Air Force and opportunities available to the Air Force corps. 1 credit(s)

### **AES 111 - AFROTC Leadership Lab 1-A**

Progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and opportunities available to commissioned officers. Corequisite(s): AES 110 or equivalent. Note(s): S/F grading only. 2 credit(s)

### **AES 120 - Foundations of the United States Air Force II**

Survey course designed to introduce AFROTC cadets to the leadership aspects of being an Air Force officer and the environment in which the Air Force officer functions. Course emphasizes the Air Force's core values and other unique characteristics of serving in the United States Air Force. Prerequisite(s): AES 110 or equivalent. 1 credit(s)

### **AES 121 - AFROTC Leadership Lab 1-B**

Progression of experiences designed to develop leadership ability and awareness of the Air Force lifestyle with emphasis on: Air Force customs and courtesies; drill and ceremonies, physical fitness, the Air Force officer's environment and culture and opportunities available to commissioned officers. Corequisite(s): AES 120 or equivalent. Note(s): S/F grading only. 2 credit(s)

### **AES 230 - Evolution of USAF Air and Space Power I**

Survey course designed to trace the development of the U.S. Air Force air and space power through a historical prism. Begins with the study of early flight and concludes with the Korean conflict. Special emphasis is placed on the evolving nature of Air Force capabilities, functions and doctrine. 1 credit(s)

### **AES 231 - AFROTC Leadership Lab II-A**

In-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focuses on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 231 is required for all cadets applying to attend Field Training. Corequisite(s): AES 230 or equivalent. Note(s): S/F grading only. 2 credit(s)

### **AES 240 - Evolution of USAF Air and Space Power II**

Survey course to trace the development of U.S. Air Force air and space power through a historical prism. Begins with study of the Vietnam War and concludes with the second war against Iraq. Emphasis placed on evolving nature of Air Force capabilities, functions and doctrine. Prerequisite(s): AES 230 or equivalent. 1 credit(s)

### **AES 241 - AFROTC Leadership Lab II-B**

In-depth progression of experiences developing leadership ability and awareness of the Air Force lifestyle. Focuses on continued military training related to uniform wear, military customs and courtesies, and military ceremonies. AES 241 is required for all cadets applying to attend Field Training.

Corequisite(s): AES 240 or equivalent. Note(s): S/F grading only. 2 credit(s)

### **AES 351 - Air Force Leadership Studies I**

Designed to provide AFROTC cadets the opportunity to study and master the leadership, management and communication skills required of successful Air Force officers. Participate and interactive learning methodologies are used throughout to ensure students have internalized and can apply concepts being studied. Prerequisite(s): AES 240 or equivalent or junior standing. 3 credit(s)

**AES 352 - AFROTC Leadership Lab III-A**

Study of advanced leadership topics such as: planning and controlling the military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction, and information to increase the understanding, motivation, and performance of other cadets. Corequisite(s): AES 351 or equivalent. Note(s): S/F grading only. 2 credit(s)

**AES 361 - Air Force Leadership Studies II**

Designed to provide AFROTC cadets the opportunity to study and master the leadership, management and communication skills required of successful Air Force officers. Emphasis placed on the study of military ethics, leadership accountability and professional relations. Participative and interactive learning methodologies used throughout. Prerequisite(s): AES 351 or equivalent or junior standing. 3 credit(s)

**AES 362 - AFROTC Leadership Lab III-B**

Study of advanced leadership skills such as: planning and controlling the military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction and information to increase the understanding, motivation, and performance of other cadets. Corequisite(s): AES 361 or equivalent. Note(s): S/F grading only. 2 credit(s)

**AES 471 - National Security Affairs/Preparation for Active Duty I**

Provides advanced AFROTC cadets the opportunity to study the national security policy process, the make-up and joint nature of the U.S. military and pertinent regional issues. Participative and interactive learning methodologies used throughout. Continued emphasis placed on developing effective leadership and communication skills. Prerequisite(s): AES 361 or equivalent or junior standing. 3 credit(s)

**AES 472 - AFROTC Leadership Lab IV-A**

Provides senior AFROTC cadets advanced leadership experiences involving: planning and controlling military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction and information to increase the understanding, motivation, and performance of other cadets. Corequisite(s): AES 471 or equivalent. Note(s): S/F grading only. 2 credit(s)

**AES 481 - National Security Affairs/Preparation for Active Duty II**

Provides advanced AFROTC cadets the opportunity to study regional issues impacting the U.S. Air Force, the unique aspects of the profession of arms and prepare them to enter active duty as an Air Force officer. Continued emphasis placed on developing effective leadership and communication skills. Prerequisite(s): AES 471 or equivalent or junior standing. 3 credit(s)

**AES 482 - AFROTC Leadership Lab IV-B**

Provides senior AFROTC cadets advanced leadership experiences involving: planning and controlling military activities of the AFROTC cadet corps, preparing and presenting military briefings and written communications, and providing guidance, direction and information to increase the understanding, motivation, and performance of other cadets. Corequisite(s): AES 481 or equivalent. Note(s): S/F grading only. 2 credit(s)

## Military Science Department

The Army ROTC program in the Department of Military Science offers an academically challenging and practical curriculum which can be completed in eight semesters or a compressed program of either four or six semesters. The military science curriculum supplements the university's baccalaureate or postgraduate studies. The Army is prepared to award a commission to any deserving student based on both Army ROTC and academic achievement upon graduation.

The scope of the military science curriculum is oriented toward developing the best all-around student who demonstrates leadership and managerial skill, reacts well under pressure, and understands general military subjects. Student cadets attend classroom conferences and a leadership laboratory program.

### *Program Objectives*

The overall objective of the Army ROTC program is to develop in the student cadet (through both classroom theory and practical application) the necessary traits, knowledge, proficiency, and experience needed to be commissioned as an officer in the United States Army. The candidate's course of study includes a broad educational base, including academic subjects of particular value in both civilian and military pursuits. Student cadets develop expertise in the following subject areas:

1. General knowledge of the historical development of the United States Army and its role in support of national objectives.
2. Working knowledge of general organizational structure and how the various components of an organization operate as a team in the fulfillment of overall objectives.
3. Strong understanding of personal integrity, honor, and individual responsibility.
4. Knowledge of the human relationships involved in an organization and an understanding of the responsibilities of military service assignments.
5. The ability to communicate effectively, both orally and in writing.
6. Sufficient knowledge of military life to ensure a smooth transition from the civilian environment.

The curriculum prepares the student for military service.

### *Admission to the Program*

The first two years of the Army ROTC program are called the Basic Program and are offered at the CSN and UNLV Campuses. Only the final two years, constitute the Advanced Program. The Advanced Program is open to undergraduate and graduate students who have successfully completed the Basic Program, the six-week Army ROTC basic summer camp, or those who have completed Basic Training and who have completed a minimum of 60 college credits.

The basic summer camp (Leader's Training Camp) is normally scheduled after the student's sophomore year. The basic summer camp substitutes for the basic program and is geared for students who join the ROTC program late and wish to finish the curriculum in four semesters (two years).

To be admitted into the Advanced Program, a student must:

1. Be a citizen of the United States and be regularly enrolled as a full-time student at the university.
2. Be able to complete the course, graduate and be commissioned prior to the 30th birthday (waivers are possible).
3. Have successfully completed such survey and screening tests as may be prescribed.



4. Have successfully passed a prescribed physical examination.
5. Be selected by the Chair of the Department of Military Science.
6. Executed a written contract with the United States government.

As part of the advanced program, the student enters into a contract with the Army, whereby the individual agrees, contingent upon continued university enrollment, to complete the Army ROTC program (including advanced summer camp) and to accept a commission, if offered, upon completion of the degree program. To be eligible for commissioning, a student must earn at least a bachelor's degree.

### ***Advanced Program Requirements***

12 credits

MIL 301 MIL 302, MIL 401, MIL 402 (MIL 100 is required with each MIL course)

### ***Volunteer Extracurricular Activities***

**Ranger Challenge Team:** A highly competitive organization that provides additional military training for students who are preparing to become Combat Arms Officers. The Ranger Challenge Team competes annually as a varsity sport against teams from other colleges and universities in the western United States.

### ***Financial Assistance***

In the basic program, students with Army ROTC scholarships, or those contracted cadets receive up to \$500/month. Students awarded two-, three- and four-year Army ROTC scholarships by the Department of the Army receive a per month subsistence stipend while enrolled in school (10 months per year maximum), as well as payment for tuition, fees, and books.

All other students formally enrolled in the advanced course are paid a per month stipend while enrolled in school, not to exceed a total of 20 months. Students are paid one-half of the base pay of a second lieutenant while attending the six-week summer camp training, plus travel pay to and from summer camp. The Department of Military Science has a limited number of in-state and out-of-state fee waivers available each semester for students requiring financial assistance.

Additionally, the National Guard and Army Reserve pay up to 100 percent of the credit costs plus book reimbursement for students who elect to serve simultaneously in the National Guard or Army Reserve and ROTC.

### ***Textbooks, Uniforms and Equipment***

The U.S. government provides students with required textbooks, and provides uniforms and equipment to qualified cadets.

Uniforms are for use during MIL 100 and other training conducted by the program. Uniforms are turned in at the end of each semester.

### ***Military Science Minor***

The Army ROTC program in the Department of Military Science offers an academically challenging and practical curriculum which can be completed in eight semesters or a compressed program of either four or six semesters. The military science curriculum supplements the university's baccalaureate or postgraduate studies. The Army is prepared to award a commission to any deserving student based on both Army ROTC and academic achievement upon graduation.

The scope of the military science curriculum is oriented toward developing the best all-around student who demonstrates leadership and managerial skill, reacts well under pressure, and understands

general military subjects. Student cadets attend classroom conferences and a leadership laboratory program.

Courses include ..... Total Credits: 25

- MIL 101 - Basic Military Skills I
- MIL 102 - Basic Military Skills II
- MIL 201 - Leadership and Management I
- MIL 202 - Leadership and Management II
- MIL 301 - Leadership in Small Unit Operations
- MIL 302 - Advanced Leadership Development
- MIL 350 - Leadership Development and Assessment Course
- MIL 401 - Adaptive Leadership
- MIL 402 - Leadership in a Complex World
- HIST 386A - Military History of the United States to 1900
- HIST 386B - Military History of the United States Since 1900

Can substitute MIL 101, 102, 201, 202 with MIL 250

### ***Military Science***

#### ***MIL 100 - Leadership Lab***

Practicum in those skills taught in the classroom during the other military science classes. Hands-on lab led by mentored cadets focusing on leadership, planning and execution of squad tactics, movement formations, drill and ceremonies, equipment inspections, rappelling, land navigation, orienteering, rifle marksmanship, and air-mobile operations. Lab required every semester in conjunction with the appropriate military science class. 1 credit(s)

#### ***MIL 101 - Basic Military Skills I***

Mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Army Officer, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills. 2 credit(s)

#### ***MIL 102 - Basic Military Skills II***

Continuation of the mission of the armed services, introduction to the United States Army, its customs and traditions, the role of the Non-Commissioned Officers Corps, Organizations of the TOTAL Army (Including the National Guard and Army Reserves). Introductory orienteering, marksmanship, physical fitness and briefing skills. 2 credit(s)

#### ***MIL 201 - Leadership and Management I***

Introduction to leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness and briefing skills. 2 credit(s)

#### ***MIL 202 - Leadership and Management II***

Leadership and management, which develops the basic skills that must be learned in order to perform as an effective leader. Introduction to the Army Leadership Development Program (LDP), the decision-making process, the code of conduct, the Army Operations Order format and its use. Advanced land navigation, physical fitness, and briefing skills. 2 credit(s)

#### ***MIL 250 - Leader's Training Course***

A five week course at Fort Knox, KY intended for those who are interested in ROTC but have missed one or more semesters of military science. This course has four phases intended to develop and hone individual and collective skills. The first phases deals with military customs and courtesies, wear of uniforms and drill and ceremony. The second phase deals with adventure training, obstacle course, hand grenades/weapons, water survival etc. The third phase deals with tactics and military leadership, and the final phase combines all elements into a practical exercise. Travel will be paid by the government. Prerequisite(s): Students must have prior consent from the Professor of Military Science to attend the course. 2 credit(s)



### **MIL 301 - Leadership in Small Unit Operations**

Includes current tactical doctrine as applied to small unit leadership with special emphasis on those leadership skills required for an ROTC cadet to be successful at the Army ROTC Leadership Development and Assessment course. Prerequisite(s): Completion of Basic Training, Leadership Training Camp or the first two years of ROTC and consent of instructor. 3 credit(s)

### **MIL 302 - Advanced Leadership Development**

Continuation of MIL 301. Includes current tactical doctrine as applied to small unit leadership with special emphasis on those leadership skills required for an ROTC cadet to be successful at the Army ROTC Advanced Camp. Prerequisite(s): MIL 301 and consent of instructor. 3 credit(s)

### **MIL 304 - Advanced Topics in Leadership**

Directed reading and research in contemporary military issues oriented towards a student's transition from cadet to commissioned officer. Prerequisite(s): Consent of instructor. May be repeated twice for credit. 2 credit(s)

### **MIL 350 - Leadership Development and Assessment Course**

A five-week course offered during the summer at Fort Lewis, WA that emphasizes a variety of leadership positions, simulate stressful combat situations, formal evaluations on different scenarios, must meet physical fitness standards, and demonstrate proficiency in other military skills. Prerequisite(s): MIL 301 and MIL 302. 2 credit(s)

### **MIL 401 - Adaptive Leadership**

Contemporary military policy and related subjects of topical military interest, military law, the military justice system, courts-martial, personal ethics and the role of the junior officer. Prerequisite(s): Consent of instructor. 3 credit(s)

### **MIL 402 - Leadership in a Complex World**

Continuation of contemporary military policy and related subjects of topical military interest, including military law, the military justice system, courts-martial, personal ethics and the role of the junior officer. Prerequisite(s): MIL 401 and consent of instructor. 3 credit(s)

## **Civil and Environmental Engineering and Construction Department**

The Department of Civil and Environmental Engineering and Construction offers rigorous academic programs leading to degrees in Civil Engineering and Construction Management. Civil Engineering involves the planning, analysis and design, construction, operation, and stewardship of the world's structures and infrastructure. Civil Engineers design and construct buildings, bridges, highways, dams, water and wastewater treatment facilities, and other public and private works essential to civilized life in a modern society. Civil Engineers apply modern and sophisticated tools to plan and design large-scale systems for the public good, as well as select components and materials employed in these systems. Civil Engineers work primarily in teams, in a broad range of business models and as public servants. The Civil Engineering curriculum provides graduates with the skills needed to become successful, innovative and socially responsible Civil Engineers. The Construction Management curriculum offers courses in construction science and management that provide students with the necessary education to enter a wide range of professional positions in the construction industry or advanced degree programs. The program stresses a sound educational background in construction science to support the management decision-making capability required in the field.

### ***Accredited by the:***

Northwest Commission on Colleges and Universities, [www.nwccu.org](http://www.nwccu.org)  
Engineering Accreditation Commission of ABET, <http://www.abet.org>  
American Council for Construction Education, <http://www.acce-hq.org>

### ***Undergraduate Majors***

Bachelor of Science in Engineering-Civil Engineering  
Bachelor of Science in Construction Management

### ***Mission***

It is the mission of the department to produce competent, ethical, and socially responsible graduates develop and advance relevant knowledge, and serve the community and the professions of Civil Engineering and Construction Management.

### ***Goals***

The goals of the department's accredited baccalaureate programs are to:

- Prepare graduates for the lifelong practice of civil engineering and construction management.
- Meet educational requirements for professional licensure in civil engineering and professional certification in construction management.
- Provide graduates with solid academic preparation for graduate study.

### **Civil Engineering Program—Educational Objectives**

The objectives of the Civil Engineering undergraduate degree program are to prepare graduates who can perform at the entry level in civil engineering practice so that, some years after graduation, they can become licensed professionals having responsibility for the planning,

design, implementation, operation, continuous improvement and stewardship of civil engineering structures and infrastructure. Graduates will have the skills and tools for life-long learning, continuing professional development, and pursuit of advanced degrees.

### **Measurable Program Outcomes**

Civil engineering graduates will have attained the following outcomes:

1. an ability to apply knowledge of mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of science, and engineering;
2. an ability to design and conduct civil engineering experiments, as well as to analyze and interpret the resulting data;
3. an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
4. an ability to function on multidisciplinary teams;
5. an ability to identify, formulate, and solve engineering problems;
6. an understanding of professional and ethical responsibility;
7. an ability to communicate effectively;
8. the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
9. a recognition of the need for, and an ability to engage in life-long learning;
10. a knowledge of contemporary issues;
11. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
12. an ability to apply knowledge of four technical areas appropriate to civil engineering;
13. an ability to design a system, component, or process in more than one civil engineering context;
14. an ability to explain basic concepts in management, business, public policy, and leadership;
15. an ability to explain the importance of professional licensure.

**Technical Areas:** The CEE Department has four required technical areas. The areas and the required course work in each respective area are:

1. Environmental/Water Resources Engineering — ME 242, CEE 367, CEE 413, CEE 450.
2. Geotechnical Engineering — CEE 334, CEE 346.
3. Structural Engineering — CEE 241, CEE 346, CEE 370, CEE 381, CEE 480.
4. Transportation Engineering — CEE 121, CEE 346, CEE 362.

Additionally, four technical elective courses are required in at least two technical areas, with a minimum of two courses in one area. The technical electives available in each technical area are:

1. Environmental/Water Resources Engineering — CEE 404, CEE 406, CEE 407, CEE 451, CEE 452, CEE 454, CEE 455.
2. Geotechnical Engineering — CEE 410, CEE 432, CEE 434, CEE 435, CEE 436.
3. Structural Engineering — CEE 410, CEE 444, CEE 476, CEE 477, CEE 478, CEE 482.
4. Transportation Engineering — CEE 410, CEE 461, CEE 462, CEE 463, CEE 464, CEE 466, CEE 467, CEE 470, CEE 471.
5. Construction Engineering — CEE 409 and one of CEM 451/451L, CEM 453/453L, CEM 454.

In addition to the courses identified above, students may take other elective courses such as computer applications, project management, construction engineering, and others. CEE 468 may be counted as an

elective in Transportation Engineering, Environmental Engineering, or Geotechnical Engineering if a project is undertaken in that area. CEE 491 Independent Study courses and CEE 495 Special Topics courses will be categorized based on their content.

### **Construction Management Program—Educational Objectives**

The Construction Management Program emphasizes course work in construction science, construction management, engineering, business and management, and mathematics and science.

### **Measurable Program Outcomes**

Construction management graduates will have attained the following outcomes:

1. an ability to apply contemporary knowledge in project estimating, planning, scheduling and control;
2. an ability to apply contemporary knowledge to construction science;
3. an ability to state-of-the-art skills in construction computer applications;
4. an ability to define and solve problems;
5. an ability to communicate effectively;
6. an ability to function on multidisciplinary teams;
7. an ability to employ sound interpersonal and leadership skills
8. an understanding of professional and ethical responsibility;
9. an ability to apply contemporary knowledge of risk management, safety, litigation and documentation;
10. understanding of professional customer service and quality a recognition of the need for, and an ability to engage in life-long learning;
11. a knowledge of contemporary issues.

**Technical Areas:** The program prepares the student for professional practice as a construction manager or other professional construction-related positions. Prepares the student for graduate course work in construction management.

### **Admission to the Major**

General admission follows college requirements. Students transferring from other universities or from other colleges within UNLV who have GPAs of between 2.00 and 2.50 will be admitted on probation and considered to be pre-major students. Admission and transfer policies are described in the College of Engineering section.

### **Department Policies**

1. Regardless of catalog of graduation, students must satisfy prerequisite and corequisite course requirements as specified in the most recent Undergraduate Catalog.
2. All required and elective courses in engineering, mathematics, science, business, computer science, and English must be completed with a grade of C or better. Prerequisite courses must be completed with a grade of C or better before taking the next course. Students must complete all pre-major courses before promotion to advanced standing. Promotion to advanced standing requires a minimum GPA of 2.00 and a grade of C or better in all courses specified in No. 2 above.

3. All Civil Engineering majors must take the Discipline-Specific Fundamentals of Engineering Examination in Civil Engineering within one year prior to anticipated date of graduation. Students must register for CEE 499, one-credit, during the semester in which they plan to take the examination.
4. Civil Engineering students should register for CEE 498, Civil Engineering Capstone Design, in their last semester prior to anticipated date of graduation. To verify eligibility and permit registration for Civil Engineering Capstone Design, students must submit a completed graduation application prior to the start of instruction in their penultimate semester.
5. All Construction Management majors must take the American Institute of Constructors Qualification Examination (COE) Level I-Construction Fundamentals as part of CEM 455 within one year prior to anticipated date of graduation. A good-faith effort on the exam is required.

## Construction Management Major- Bachelor of Science (BS)

Please see the UNLV Howard R. Hughes College of Engineering web page at [www.unlv.edu/engineering](http://www.unlv.edu/engineering) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at [www.engineering.unlv.edu/advising](http://www.engineering.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Accreditation Board for Engineering and Technology  
[www.abet.org](http://www.abet.org)

## Learning Outcomes

1. Graduates have a fundamental grounding in mathematics, physics, and statistics.
2. Graduates have a strong grounding in business (business, law, economics, engineering economics, and management).
3. Graduates have the ability to communicate effectively in written format and to provide professional presentation appropriate to the situation and audience.
4. Graduates have the ability to use modern construction management tools in construction management practice.
5. Graduates are aware of basic principles of ethical and professional conduct in providing for safety and health to construction practice.
6. Graduates fulfill a broad construction management curriculum to include required courses in construction management and construction science.

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Construction Management Requirements.....Total: 120-126  
General Education Requirements..... Subtotal 37-43 Credits  
General Education Requirements required to complete in the Pre Major;  
First-Year Seminar, English, Second-Year Seminar, Humanities (distribution requirement) Mathematics, Social Sciences (distribution requirement).  
General Education Requirements required to complete in the Pre Major or in Advanced Standing;  
Multicultural and International, Constitution, Fine Arts (distribution

requirement).

First-Year Seminar .....	Credits: 2-3 (See note 4 below)
English Composition .....	Credits: 6
• ENG 101 - Composition I	
• ENG 102 - Composition II	
Second-Year Seminar .....	Credits: 3 (see note 5 below)
Constitutions .....	Credits: 4
Recommended courses:	
• HIST 100 - Historical Issues and Contemporary Society	
or	
• PSC 101 - Introduction to American Politics	
Mathematics.....	Credits:7
MATH 181 - Calculus I	
MATH 182 - Calculus II	
Distribution Requirements .....	Credits: 18
Please see Distribution Requirement for more information.	
• Humanities and Fine Arts: 9 Credits	
• Two courses 3 credits each from two different humanities areas - 6 credits	
• COM 101 - Oral Communication and either	
• PHIL 242 - Ethics For Engineers and Scientists (see note 5 below)	
or	
• PHIL 249 - Environmental Ethics	
One course in Fine Arts	
• Social Science: 9 Credits	
• ECON 190 - Global Economics (see notes 1 & 3 below)	
• EGG 307 - Engineering Economics (see notes 2 & 3 below)	
• PSY 101 - General Psychology or SOC 101 - Principles of Sociology	
• Life and Physical Sciences and Analytical Thinking:	
• Automatically satisfied by Major requirement	
Multicultural and International	
International - ECON 190 - Global Economics - (see note 3 below )	
Multicultural - Fine Arts course to satisfy Multicultural Requirement	
These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <a href="http://facultysenate.unlv.edu/students">http://facultysenate.unlv.edu/students</a>	
Major Requirements - BS in Construction Management - Engineering Sciences Option.....	Subtotal: 83
Pre-Major Courses.....	Credits: 23
Business.....	Credits: 3
• ECON 102 - Principles of Microeconomics	
Sciences .....	Credits: 8
• PHYS 151 - General Physics I	
• PHYS 151L - General Physics I	
• PHYS 152 - General Physics II	
• PHYS 152L - General Physics II	
Construction .....	Credits: 10
• AAD 267 - Introductory to Digital Media	
• CEM 100 - Fundamentals of Construction Management	
• CEM 250 - Construction Materials and Methods	
• CEE 121 - Elementary Surveying	
Other Required Courses (can be taken as Pre-Major or Advanced Standing).....	Credits: 17
Business.....	Credits: 9

- ACC 201 - Financial Accounting
  - BLW 302 - Legal Environment
  - MGT 301 - Principles of Management and Organizational Behavior
- Construction Management Courses..... Credits: 8
- CEM 253 - Quantity Surveying and Document Analysis
  - CEM 253L - Quantity Surveying and Document Analysis
  - CEM 270 - Construction Engineering Mechanics
  - CEM 301 - Construction Safety

Advanced Standing Courses..... Credits: 43

- CEM 330 - Soils and Foundations for Construction
- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II
- CEM 370 - Steel and Wood Design in Construction
- CEM 372 - Concrete Design in Construction
- CEM 432 - Temporary Construction Structures
- CEM 450 - Construction Field Inspection
- CEM 451/451L - Construction Estimating
- CEM 452/452L - Construction Cost Control
- CEM 453/453L - Construction Scheduling
- CEM 454 - Heavy Construction Methods and Equipment
- CEM 455 - Construction Management Practice
- CEM 480 - Sustainable Construction
- CEM 485 - Construction Law and Contracts

Total Credits: ..... 120-126

## Notes

1. ECON 190 satisfies three credits of the social science requirement and the University International Requirement. BLW 302 satisfies one of the Business requirement courses and the University Multicultural Requirement.
2. EGG 307, Engineering Economics, is approved by the University General Education Committee to meet three credits of the social science requirement.
3. UNLV requires six credits of humanities and nine credits of social science. Six of these 15 credits must be taken before the student can achieve advanced standing status. ECON 190 and one of the Humanities electives may be taken either pre-program or advanced standing. EGG 307 must be taken after completing 30 credits MATH 181 with a grade of C or better.
4. EGG 101 preferred for First-Year Seminar.
5. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120

## Civil Engineering Major- Bachelor of Science in Engineering (BSE)

Please see the UNLV Howard R. Hughes College of Engineering web page at [www.unlv.edu/engineering](http://www.unlv.edu/engineering) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at [www.engineering.unlv.edu/advising](http://www.engineering.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Accreditation Board for Engineering and Technology  
[www.abet.org](http://www.abet.org)

## Learning Outcomes

1. Apply knowledge of mathematics through differential equations, calculus-based physics, chemistry, and at least one additional area of science, and engineering;
2. Design and conduct civil engineering experiments, as well as to analyze and interpret the resulting data;
3. Design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
4. Function on multidisciplinary teams;
5. Identify, formulate, and solve engineering problems;
6. An understanding of professional and ethical responsibility;
7. Ability to communicate effectively;
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
9. Recognition of the need for, and an ability to engage in life-long learning;
10. Knowledge of contemporary issues;
11. Ability to use the techniques, skills, and modern engineering tools necessary for engineering practice;
12. Ability to apply knowledge of four technical areas appropriate to civil engineering;
13. Ability to design a system, component, or process in more than one civil engineering context;
14. Explain basic concepts in management, business, public policy, and leadership; and an ability to explain the importance of professional licensure

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Civil Engineering Degree Requirements.....Total: 135-136 Credits
- General Education Requirements ..... Subtotal: 37-40 Credits
- First-Year Seminar ..... Credits: 2-3
- English Composition ..... Credits: 6  
(see note 1 below)
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
(see note 2 and note 8 below)
- Constitutions ..... Credits: 4-6  
(see note 2 below)
- Recommended courses:
- HIST 100 - Historical Issues and Contemporary Society
- or
- PSC 101 - Introduction to American Politics
- Mathematics ..... Credits: 4  
(see note 2 below)
- MATH 181 - Calculus I
- Distribution Requirements ..... Credits:18
- Please see Distribution Requirement for more information.  
(see note 3 below)
- Humanities and Fine Arts:9 credits
    - PHIL 242 - Ethics For Engineers and Scientists (see note 8 below)
    - COM 101 - Oral Communication
    - One course in Fine Arts - 3 credits
  - Social Science: 9 credits
    - EGG 307 - Engineering Economics
    - Two additional Social Science courses



- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

(see note 2 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Civil Engineering Curriculum Pre-Major Courses ..... Credits: 33

Mathematics..... Credits: 4

- MATH 182 - Calculus II

Sciences ..... Credits: 16

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- PHYS 180 - Physics for Scientists and Engineers I

and

- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II

and

- PHYS 181L - Physics for Scientists and Engineers Lab II
- GEOL 101 - Exploring Planet Earth

Engineering ..... Credits: 13

- CEE 210 - Introduction to Civil Engineering Design
- CEE 241 - Statics
- CEE 250 - Sustainability in Civil and Environmental Engineering
- CEE 370 - Engineering Mechanics of Deformable Bodies

Major Requirements - BS in Civil Engineering..Subtotal: 65 Credits

Other Required Courses (can be taken as Pre-Major or Advanced Standing)..... Credits: 16

Engineering ..... Credits: 9

- CEE 121 - Elementary Surveying
- CEE 198 - Ethics and Professional Practice of Engineering
- CEE 298 - Project Management and Professional Practice
- CEE 301 - CAD Tools for Civil Engineering Design
- ME 242 - Dynamics

Mathematics..... Credits: 4

- MATH 283 - Calculus III

Engineering Science ..... Credits: 3

- ME 311 - Engineering Thermodynamics I

Advanced Standing..... Credits: 49

Mathematics, Statistics..... Credits: 6

- MATH 431 - Mathematics for Engineers and Scientists I
- STAT 463 - Applied Statistics for Engineers

Civil Engineering Requirements ..... Credits: 31

- CEE 334 - Soil Mechanics
- CEE 346 - Civil Engineering Materials
- CEE 362 - Transportation Engineering
- CEE 367 - Fluid Mechanics
- CEE 381 - Structural Analysis I
- CEE 413 - Water Resources Engineering I
- CEE 450 - Unit Operations and Processes in Environmental Engineering
- CEE 480 - Concrete Structure Design

- CEE 496 - Civil Engineering Professional Practicum
  - CEE 498 - Civil Engineering Capstone Design
  - CEE 499 - Fundamentals of Engineering Examination Registration
- Civil Engineering Electives Credits: 12
- CEE 400-level elective courses. (see notes 4, 5 and 6 below)
- Total Credits: ..... 135-136

## Notes

1. Must take as a Civil Engineering Pre-Major.
2. Can be taken as a Civil Engineering Pre-Major or in Advanced Standing.
3. UNLV requires six credits of humanities, three credits of fine arts and nine credits of social science. Six of these 18 credits must be taken before the student can achieve Advanced Standing status. Of the remaining 12 credits, EGG 307 must be taken after achieving Advanced Standing. The remaining nine credits may be taken either as pre-program or advanced standing.
4. CEE 491 may not replace a required course in the curriculum, may not count for more than three elective credits toward the degree, and may not be used for work experience.
5. Civil engineering elective courses are required in at least two technical areas with a minimum of two courses in one area. CEE 444 should be taken as one of the technical electives if a student elects the structural technical area.
6. Three credits of Cooperative Training (CEE 225 , CEE 325 , and CEE 425 may be used in place of one three-credit civil engineering elective. No more than one of these credits may be CEE 225.
7. To earn required credits for graduation, transfer students lacking laboratory credit for any CEE laboratory course (CEE 334 , 346, 367 or 450), must, for each lab course in which they lack credit, register simultaneously for both the corresponding zero-credit laboratory course and for a one-credit CEE 491 independent study course.
8. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

## CEE 121 - Elementary Surveying

Vertical and horizontal control methods: topographic and construction surveys, use of land survey equipment, note taking and graphical communication. Applications to earthwork and highway alignment. Prerequisite(s): MATH 127 or MATH 128 or SAT 630 or higher OR ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better.. Lab/Lecture/Studio Hours Two hours lecture plus three hours laboratory. 2credit(s)

## CEE 198 - Ethics and Professional Practice of Engineering

Oral communication, engineers' code of ethics and other requirements for the professional practice of engineering studied through textbook material, oral communication workshops, professional society meetings, and journals. Corequisite(s): ENG 101. 1credit(s)

## CEE 210 - Introduction to Civil Engineering Design

Introduction to design of civil engineering systems, components, and processes including steps in problem solving, sustainability, relevant federal acts and laws, computer-based computational methods, and CAD design tools. Team projects with emphasis on technical communications. Corequisite(s): ENG 101 or ENG 101E OR SAT verbal score of 680 or higher OR ACT verbal score of 30 or higher, CEE 198. Prerequisite(s): MATH 127 or MATH 128 or higher, or SAT math score of 630 or higher or ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better. Lab/Lecture/Studio Hours Two hours lecture and three hours laboratory. 3 credit(s)

**CEE 225 - Cooperative Training I**

Introductory individual off-campus learning experiences in civil engineering. Students apply engineering concepts and theories in work-related settings. Minimum 200 supervised hours required. Progress reports required at least monthly. Final report and/or final poster required. Prerequisite(s): Sophomore standing in engineering. Prior approval of employer and department. May be repeated once. Note(s): No more than one credit of CEE 225 may count towards the degree. 1 credit(s)

**CEE 241 - Statics**

Engineering analysis of concentrated and distributed force systems at equilibrium; analysis of structures, beams and cables, friction, virtual work, fluid statics, shear and moment diagrams. Prerequisite(s): PHYS 180, PHYS 180L, MATH 182. All prerequisites must be completed with a C or better. 3 credit(s)

**CEE 250 - Sustainability in Civil and Environmental Engineering**

Sustainability concepts applied to transportation, structural materials, construction, and water and wastewater systems. Air pollution, waste minimization, sustainable water resources, and green construction. Alternative energy sources, and contemporary issues that impact sustainability as it relates to safety, durability, economics, environmental, societal and health impacts. Prerequisite(s): CEE 210, CEE 198, CHEM 121A and CHEM 121L; All prerequisites must be completed with a C or better. 3 credit(s)

**CEE 298 - Project Management and Professional Practice**

Introduction to the activities of professional engineers. Through lectures, seminars by invited guests, and participation in organized activities outside the classroom, address civil engineering project management and other professional matters that affect engineering practice such as licensure, business, public policy, public administration, and contemporary issues. Prerequisite(s): CEE 198. 1 credit(s)

**CEE 301 - CAD Tools for Civil Engineering Design**

Introduction to CAD-based civil engineering design tools, including COGO, surveying, roadway and site layout, digital terrain modeling, and earthworks design software. Prerequisite(s): CEE 210, CEE 121, and advanced standing. All prerequisite courses must be completed with a grade of C or better. 2 credit(s)

**CEE 325 - Cooperative Training II**

Individual off-campus learning experiences in civil engineering. Students apply engineering concepts and theories in work-related settings. Minimum 200 supervised hours required. Progress reports required at least monthly. Final report and/or final poster required. A combined maximum of three credits in CEE 225 and CEE 325 may count towards the degree. Prerequisite(s): Junior or senior standing in engineering. Prior approval of employer and department. May be repeated twice. 1 credit(s)

**CEE 334 - Soil Mechanics**

Elementary soil mechanics theory. Physical and mechanical properties of soils. Shear strength, consolidation, earth pressure. Laboratory testing - Atterberg Limits, compaction, shear, unconfined compression, permeability, sampling, and in-situ testing. Prerequisite(s): CEE 370, or ME 302 and ME 302L, GEOL 101 and Advanced Standing; All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

**CEE 341 - Building Structures I**

Theory and basic elements of simple structural systems for architects, designers, and construction managers. Does not satisfy program requirements for civil/mechanical degrees. Prerequisite(s): Advanced standing in engineering. 3 credit(s)

**CEE 346 - Civil Engineering Materials**

Properties and uses of aggregates, Portland cement concrete, bituminous materials, ferrous and non-ferrous metals, and wood for buildings, highways and other civil engineering works. Corequisite(s): STAT 463 or equivalent. Prerequisite(s): CEE 370 or ME 302, Advanced Standing. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours Two hours lecture and three hours laboratory. 3 credit(s)

**CEE 362 - Transportation Engineering**

Design, operation, objectives, characteristics, and social, environmental and economic relations of transportation systems including water, air, and land facilities. Prerequisite(s): Advanced standing. PHYS 180 & PHYS 180L, or PHYS 151 & PHYS 152; CEE 210 or IS 101; CEE 121. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 367 - Fluid Mechanics**

Introduction to fluid properties, statics, and fluid dynamics, development and application of fundamental equations for the study of external and internal flows, compressible flows, dimensional analysis, and turbomachinery. Laboratory exercises on the dynamics and statics of fluids. Prerequisite(s): ME 242; MATH 283 and engineering major. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours: Three hours lecture and three hours laboratory. 4 credit(s)

**CEE 370 - Engineering Mechanics of Deformable Bodies**

Concepts of stress and strain, transformation of stress and strain, Mohr's circle, engineering properties of materials, axially loaded members, torsion of circular members, bending of beams, buckling of columns, combined loading, thin-walled pressure vessels. Prerequisite(s): C or better in CEE 241. Lab/Lecture/Studio Hours: Three hours lecture and three hours laboratory. 4 credit(s)

**CEE 370L - Engineering Mechanics of Deformable Bodies Laboratory**

Strain gage attachment and calibration, tensile testing of metals and non-metals, elastic constants, beam deflection and failure, torsion testing, column stability, and bolted connection testing. Corequisite(s): CEE 370. Lab/Lecture/Studio Hours: Three hours laboratory. 0 credit(s)

**CEE 381 - Structural Analysis I**

Principles and techniques of structural mechanics and application to analysis of engineering structures. Prerequisite(s): MATH 283 and either CEE 370, or or ME 302 & ME 302L, advanced standing; All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 404 - Open Channel Flow**

Detailed examination and design of open channel flow systems. Includes energy and momentum principles, non-uniform flow, transition design, design of channel controls, design of hydraulic structures, wave motions, unsteady flow, and flood routing. Prerequisite(s): Advanced Standing; CEE 367. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 406 - Hydrologic Analysis and Design**

Modeling and analysis of hydrologic systems with application to engineering design. Includes rainfall-runoff analysis, dynamic flood routing, statistical theories, and stochastic processes. Prerequisite(s): Advanced Standing; CEE 413. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 407 - Computer Applications in Environmental and Water Resources Engineering**

Application of computer models for analysis and design of environmental and water resource systems. Includes surface and groundwater hydrology, pipe networks, and water quality computer programs. Prerequisite(s): CEE 413 and CEE 450. 3 credit(s)

**CEE 409 - Engineering Project Management**

Engineering aspects of contracts, labor law, specification development, and cost estimating. Project scheduling and cost using critical path methods. Prerequisite(s): EGG 307. STAT 463 or equivalent. 3 credit(s)

**CEE 410 - Highway Construction Materials**

Composition, properties, and production of Portland cement, concrete, bituminous materials, and bituminous mixtures. Prerequisite(s): Advanced Standing; CEE 346. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 413 - Water Resources Engineering I**

Hydraulic and hydrologic design of water distribution, stormwater, and wastewater collection systems. Introduction to groundwater hydrology. Pumps, pipe flow, and pipe networks. Hydraulic design of open channels, culverts, and sanitary sewers. Prerequisite(s): Advanced Standing; CEE 367. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 423 - Engineering Surveys**

Solar observations, public land system, public land surveys, mineral surveys, vertical and horizontal curves, electronic distance measurements. Utilization of computers in survey calculations. Prerequisite(s): Advanced Standing; CEE 121, CEE 301. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours: Three hours laboratory. 3 credit(s)

**CEE 425 - Cooperative Training III**

Continuation of off-campus individual learning experiences in Civil Engineering. Students continue to apply engineering concepts and theories in work-related settings. Students in the Co-op Program(s) are required to make a written engineering report on the work they do. Prerequisite(s): Junior or senior standing in engineering. 1 credit(s)

**CEE 432 - Geological Engineering**

Incorporation of geologic factors in civil engineering works. Engineering properties of rocks and soils; engineering implications of geologic structure and processes; geologic hazards; geologic/geotechnical site investigations, including engineering geophysics. Prerequisite(s): Advanced Standing; GEOL 101, CEE 370 or ME 302/ME 302L. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours: Two credits lecture, one credit laboratory. 3 credit(s)

**CEE 434 - Rock Mechanics**

Mechanical behavior of rock with engineering and geologic application; basic solid mechanics and rheology of rocks; rock testing; theories of failure; Griffith theory, McClintock-Walsh theory; scale effects and creep. Engineering applications in tunneling and dam foundations. Geologic applications in faulting, folding, isostasy, igneous intrusion, and petroleum formation. Prerequisite(s): Advanced Standing CEE 334. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 435 - Foundations Engineering**

Site investigations, footings, slope stability, rock and soil foundations, piles. Prerequisite(s): Advanced Standing CEE 334. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 436 - Engineering Geophysics**

Introduction to geophysical methods used in shallow earth explorations for engineering purposes, such as site characterization and waste site investigations. Emphasis on seismic and electrical/electromagnetic methods. Laboratory experience includes hands-on use of state-of-the-art equipment. Appropriate for students in Civil Engineering, Geoscience, and Physics. Prerequisite(s): PHYS 180 and PHYS 181, or PHYS 151 and PHYS 152; advanced standing. Lab/Lecture/Studio Hours: Two credits lecture, one laboratory. 3 credit(s)

**CEE 444 - Steel Structural Design**

Introduction to design of structural systems in steel; LRFD method. Design of tension members, beams, columns and beam-columns. Design of connections, welded and bolted. Introduction to torsion. Prerequisite(s): Advanced Standing; CEE 346, CEE 381, MATH 431. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 450 - Unit Operations and Processes in Environmental Engineering**

Water, wastewater system design overview. Water demand, wastewater generation. Water quality criteria. Mass balances, kinetics, reactor design. Coagulation, sedimentation, filtration, disinfection. Suspended, attached processes. Sludge and residual management. Measurements of solids, pH, alkalinity, hardness, DO, BOD, COD, SVI, turbidity, MPN, chlorine residual, nitrogen, phosphorus. Prerequisite(s): Advanced Standing; CHEM 121A

and CHEM 121L, CEE 367, MATH 431. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours: Three hours lecture and three hours laboratory. 4 credit(s)

**CEE 451 - Water and Wastewater Quality Analysis**

Theory and analysis of the standard methods used by environmental engineers to analyze drinking, industrial, and domestic wastewaters to control water quality and monitor efficiency of treatment. Topics may include biological oxygen demand (BOD), chemical oxygen demand (COD), coagulation, carbon absorption, ion-exchange resins, solids analysis, analysis by atomic absorption spectrometry, alkalimetry anions and determination. Laboratory intensive course. Prerequisite(s): Advanced Standing; CHEM 121A and CHEM 121L must be completed with a grade of C or better. 3 credit(s)

**CEE 452 - Air Pollution Control Fundamentals**

Components of polluted air and air quality regulations. Control equipment material balances and process design for particulate removal. Combustion fundamentals and VOC removal. Meteorology and dispersion modeling. Automotive emissions controls. Prerequisite(s): Advanced Standing; CHEM 121A, CHEM 121L, CEE 367, and MATH 431. The Engineering department does not require but recommends that ME 311 or ME 314 be taken prior to CEE 452. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 454 - Solid and Hazardous Wastes Engineering**

Solid waste collection, separation and disposal. Recycling and containment technologies. Adsorption and microbial degradation. Thermal, radiation, and solidification methods for destruction of hazardous wastes. Site remediation. Prerequisite(s): Advanced Standing; CHEM 121A and CHEM 121L, CEE 367 and MATH 431. The Engineering department does not require but recommends that ME 311 be taken prior to CEE 454. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 455 - Water Treatment and Reuse**

Design principles and preliminary design of water treatment processes used for drinking water and water reuse. Topics include flocculation, sedimentation, filtration, disinfection, adsorption, ion-exchange, softening, chemical sludge dewatering, and water reuse. Corequisite(s): CEE 450. Prerequisite(s): Advanced Standing; CHEM 121A and CHEM 121L, CEE 367. All prerequisite courses must be completed with a grade of C or better. Note(s): Three hours lecture. 3 credit(s)

**CEE 461 - Introduction to Railroad Transportation**

Railway track, vehicle motion, signals and communications, railway track maintenance, railway operations, freight operation, passenger train operations. Prerequisite(s): Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 462 - Railroad Engineering**

Design of major elements of railroad track, including track, subgrade materials, design and construction, construction costs and stability problems, drainage, ballast, cross ties, concrete and other artificial ties, rail, fastenings and other track material, track geometry, turnouts and crossings, track-train dynamics, conduct of work, and railroad right of way. Prerequisite(s): Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 463 - Traffic Engineering**

Studies in highway and traffic planning and principles of traffic operations. Prerequisite(s): Advanced Standing; CEE 362 must be completed with a grade of C or better. 3 credit(s)

**CEE 464 - Airport Design**

Fundamental engineering principles in planning, location, design, and operation of airport facilities (terminals, apron areas, taxiways, and runways); ground access, drainage, aircraft characteristics and performance as they relate to airport design, aircraft noise and environmental considerations; elements of air traffic control. Prerequisite(s): Advanced Standing; CEE 362. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)



**CEE 466 - Geometric Design of Highways**

Design of visible elements of highways such as horizontal and vertical alignment and cross-section in accordance with design controls derived from characteristics of vehicles, drivers, traffic, and pedestrians interacting with geometry, terrain, and environment to yield a safe roadway at design capacity. Prerequisite(s): Advanced Standing; CEE 362 must be completed with a grade of C or better. 3 credit(s)

**CEE 467 - Computer Applications in Transportation Engineering**

Application of computer software models and programs for solving planning, design, and operations problems in transportation engineering. Includes traffic network analysis models, transportation planning, and impact models. Prerequisite(s): Advance Standing; CEE 362 must be completed with a grade of C or better. 3 credit(s)

**CEE 468 - GIS Applications in Civil Engineering**

Introduction to the basics of Geographic Information Systems software and hardware and their use in civil engineering. Emphasis on the application of GIS for the planning, design, operations, and maintenance of civil engineering systems. Laboratory sessions provide hands-on experience with GIS software and hardware using specific examples/case studies of GIS applications in various areas of civil engineering. Prerequisite(s): Advanced Standing; CEE 301, and any one of: CEE 334, CEE 362, CEE 413, CEE 450. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 470 - High Speed Rail**

High speed rail station, track, traction and power, rolling stock, signal and communication, traffic organization, passenger service, and maintenance. Prerequisites Advanced Standing; CEE 362 must be completed with a grade of C or better. 3 credit(s)

**CEE 471 - Public Transportation Systems**

Analysis and evaluation of mass transit systems, and their operation and management: demand and cost analysis, route design, schedules, and fare policy. Technology of transit systems, including vehicles and structures. Transit financing. Impact on land use and environment. Prerequisites Advanced Standing; CEE 362 must be completed with a grade of C or better. 3 credit(s)

**CEE 476 - Earthquake Engineering for Structures**

Introduction to vibration theory; seismic hazards; spectra of vibrations. Application of UBC Simplified Static Method and Static Method. Introduction to design of earthquake resistant structures. Discussion of diaphragms, chords and struts. Prerequisite(s): Advanced Standing; CEE 334 or CEE 432, CEE 444 or CEE 480. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 477 - Design of Underground Structures**

Design of tunnels, shafts, and underground chambers in soil and hard rocks. Prerequisite(s): Advanced Standing CEE 432 must be completed with a grade of C or better. 3 credit(s)

**CEE 478 - Applied Finite Element Analysis**

Introduction to the finite element method with computer applications to engineering problems in structural analysis, two- and three-dimensional solid mechanics and continuum. Prerequisite(s): Advanced Standing; MATH 431; CEE 370 or ME 302. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 480 - Concrete Structure Design**

Introduction to design of structural systems in concrete. Design of beams, one-way slabs, columns and beam-columns. Design of T-beams and doubly-reinforced beams. Anchorage and bar cutoffs. Prerequisite(s): Advanced Standing; CEE 346, CEE 381. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 482 - Design of Timber Structures**

Determination of simple wind and seismic forces on one and two story structures. Discussion of engineering properties of wood. Introduction to the design of sawn beams for flexure, shear, bearing and deflection. Introduction to the design of axially loaded columns. Brief introduction to the design of

trusses, diaphragms and shear walls. Prerequisite(s): Advanced Standing; CEE 346, CEE 381. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 491 - Independent Study**

Independent design project or study of a selected engineering topic. Prerequisite(s): Senior standing in engineering, or consent of instructor with departmental approval. May be repeated up to a maximum of three credits. Note(s): May not be used to replace a required course. 1-3 credit(s)

**CEE 495 - Special Topics**

Outlet for experimental and other topics which may be of current interest. Prerequisite(s): Upper-division standing in engineering. May be repeated once under different topic. Note(s): Topics and credits to be announced. May have a laboratory. 1-4 credit(s)

**CEE 496 - Civil Engineering Professional Practicum**

Engineering practicum to perform work, preferably related to civil engineering design, supervised by experienced professional, in an agency, company or institution doing civil engineering work. Practicum proposal must be approved by chair prior to starting of work. Student report approved by supervisor. Prerequisite(s): The course should be taken in a year prior to graduation and should be completed within that time period; approval of host firm and Department Chair. Note(s): S/F grading only. 0 credit(s)

**CEE 498 - Civil Engineering Capstone Design**

Capstone course to involve students in the design process from project planning through analysis, synthesis, evaluation, and recommendations. Team efforts and oral, written, and graphical communications. Prerequisite(s): Advanced Standing; All required CEE courses except CEE 496 and CEE 499 and any one of CEE 413, CEE 450, or CEE 480. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEE 499 - Fundamentals of Engineering Examination Registration**

Preparation for and completion of the Fundamentals of Engineering Civil Discipline-Specific Examination administered by the National Council of Examiners for Engineering and Surveying. Prerequisite(s): Advanced Standing; All required CEE courses except CEE 496 and CEE 498 and any one of CEE 413, CEE 450, or CEE 480. All prerequisite courses must be completed with a grade of C or better. 1 credit(s)

***Construction Management*****CEM 100 - Fundamentals of Construction Management**

Overview of construction industry roles, responsibilities, and risks from perspectives of owners, constructors, designers, financial institutions, and governmental agencies. Study of construction process techniques and applications. 3 credit(s)

**CEM 150 - Fundamentals of Construction Science**

Formerly Listed as (Formerly CEM 101)

Introduction to engineering problem solving applied to construction science. Fundamental topics include units, engineering analysis, early preliminaries of statics, and the built environment from a mechanics perspective emphasizing construction science. Corequisite(s): PHYS 151/PHYS 151L. Prerequisite(s): MATH 181. Prerequisite(s): MATH 181 or higher with a grade of C or better. 3 credit(s)

**CEM 250 - Construction Materials and Methods**

Construction materials and components; materials specifications, descriptions, and usage; construction techniques, and optimal economic selection. Sustainable construction aspects considered. Corequisite(s): CEM 250L, PHYS 151 and PHYS 151L or PHYS 181 and PHYS 181L. Lab/ Lecture/Studio Hours Two hours lecture and three hours laboratory. Field trips. 4 credit(s)



**CEM 253 - Quantity Surveying and Document Analysis**

Quantity take off and comprehension, understanding, and critical analysis of documents from engineers, architects, other design professionals, governmental agencies, vendors, suppliers, and other contractors. Prerequisite(s): CEM 100 and CEM 250. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**CEM 253L - Quantity Surveying and Document Analysis**

Quantity take off and comprehension, understanding, and critical analysis of documents from engineers, architects, other design professionals, governmental agencies, vendors, suppliers, and other contractors. Prerequisite(s): CEM 100 and CEM 250. Lab/Lecture/Studio Hours: Two hours lecture and three hours laboratory. 3 credit(s)

**CEM 270 - Construction Engineering Mechanics**

Basic principles of engineering mechanics for constructors. Vectors, static analysis, stress, strain, Mohr's circle, beams, columns and trusses are covered. Computer applications. Prerequisite(s): CEM 250 must be completed with a grade of C or better. 3 credit(s)

**CEM 300 - Construction Practicum I**

Supervised internship with one of a variety of industry organizations, including owners, contractors, designers, suppliers/manufacturers, government entities, etc.. Minimum 10,000 word practicum report required with oral presentation before supervising faculty member(s). Corequisite(s): CEM 301. Prerequisite(s): CEE 121, CEM 253, CEM 253L, CEM 270, ACC 201. Prerequisites must be completed with a grade of C or better. Advanced Standing required. Note(s): S/F grading only. 1 credit(s)

**CEM 301 - Construction Safety**

Field of construction safety covering OSHA safety, health and environmental challenges for owners, contractors, subcontractors, and construction workers. Covers zero-injury techniques. Prerequisite(s): CEM 100, CEM 250, CEM 270. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 2 credit(s)

**CEM 330 - Soils and Foundations for Construction**

Introduction to basic concepts of soils and foundations including compaction, compressibility, settlement, shear strength, and site investigations. Problem soils and solutions. Types and systems of foundations, bearing capacity, sheeting, and braced excavations. Prerequisite(s): CEM 270 or CEE 370 or ME 302, CEM 250/CEM 250L. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 350 - Facility Systems Design and Construction I**

Introduction to mechanical systems for facilities including HVAC systems, boilers, chillers, air-handling units, fire protection, piping, and plumbing systems. Sustainable/green construction concepts. Energy conservation. Detailed knowledge to analyze needs, scope, design and construction of these systems as well as address design-construction integration issues. Prerequisite(s): CEM 250/CEM 250L, PHYS 152/PHYS 152L or PHYS 182/PHYS 182L. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 351 - Facility Systems Design and Construction II**

Introduction to electrical equipment and electrical systems for facilities including power, wiring, lighting, controls, automation, security, and life safety systems. Sustainable/green construction concepts. Energy conservation. Detailed knowledge to analyze needs, scope, design and construction of these systems as well as address design-construction integration issues. Prerequisite(s): CEM 250 CEM 250L, PHYS 152 PHYS 152L or PHYS 182 PHYS 182L. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 370 - Steel and Wood Design in Construction**

Analysis and design of simple steel, timber, and wood structures using AISC, AF&PA, ICC, APA, AITC and ASCE 7. Computer applications. Prerequisite(s): CEM 270 must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 372 - Concrete Design in Construction**

Analysis and design of simple concrete structures using ACI 318 and ASCE 7. Computer applications. Prerequisite(s): CEM 270 must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 400 - Construction Practicum II**

Supervised internship with one of a variety of industry organizations, including owners, contractors, designers, suppliers/manufacturers, government entities, etc. Minimum 10,000 word practicum report required with oral presentation before supervising faculty member(s). Corequisite(s): EGG 307. Prerequisite(s): CEM 300, CEM 330, CEM 351, CEM 370, CEM 372, MGT 301, BLW 302. Prerequisites must be completed with a grade of C or better. Advanced Standing required. Note(s): S/F grading only 1 credit(s)

**CEM 432 - Temporary Construction Structures**

Analysis, design, and construction of temporary structures including formwork, falsework, shoring, rigging, and access units. Cost analysis. Computer analysis applications. Safety consideration. Prerequisite(s): CEM 330 or CEE 334, CEM 370 or CEE 381, CEM 372 or CEE 480. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 450 - Construction Field Inspection**

Construction field inspection at project sites and vendor surveillance. Construction codes including IBC/IRC, IPC, IMC, and NEC. Standards including ACI, AISC, ANSI, ASTM, and AWS. Quality assurance/ quality control concepts/development, techniques, analysis, enforcement and documentation. Corequisite(s): CEE 480 for engineering science option. Prerequisite(s): CEM 330 or CEE 334, CEM 370 or CEE 381, CEM 372 for management option. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CEM 451/451L - Construction Estimating**

Principles and procedures used in estimating construction costs. Application of quantity determination, estimate pricing, specifications, subcontractor and supplier solicitation, risk assessment and risk analysis, and final bidding preparation. Computer-based estimating used for semester project. Corequisite(s): CEM 454. Prerequisite(s): CEM 253, EGG 307. Prerequisites must be completed with a grade of C or better. Advanced Standing required. Lab/Lecture/Studio Hours: Three hours lecture and three hours laboratory. 4 credit(s)

**CEM 452/452L - Construction Cost Control**

Construction cost management including productivity and cost reporting/ analysis concepts. Financial/cost issues/cash flow for the construction firm including reporting methods with percentage of completion techniques. Performance/profitability enhancement. Earned value management. Construction bonding and insurance issues. Firm and jobsite analysis. Case studies. Prerequisite(s): EGG 307, ACC 201. Prerequisites must be completed with a grade of C or better. Advanced Standing required. Lab/Lecture/Studio Hours: Two hours lecture and three hours laboratory. 3 credit(s)

**CEM 453/453L - Construction Scheduling**

Scheduling and resource optimization. Includes short-interval scheduling, Gantt charts, linear, and matrix scheduling formats. Network techniques including CPM and PERT concepts and calculations. Computer applications. Corequisite(s): CEM 451/451L. Prerequisite(s): Advanced Standing required. Lab/Lecture/Studio Hours: Two hours lecture and three hours laboratory. 3 credit(s)

**CEM 454 - Heavy Construction Methods and Equipment**

Characteristics, capabilities, limitations, uses, and selection techniques for heavy construction methods and equipment Process planning, simulation, fleet operations, and maintenance programs. Field trip(s) where appropriate. Prerequisite(s): CEM 330 or CEE 334, EGG 307 and consent of instructor. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 455 - Construction Management Practice**

Direction and operation of construction organizations with examination of general contracting, design-build, and construction management methods. Synthesis of project management concepts, applications, and limitations through case studies and semester project. Prerequisite(s): CEM 451/451L, CEM 452/452L, CEM 453/453L. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 457 - Project Management**

Principles and application for effective project planning including finance, economic decisions making, risk management, team alignment, and pre-project planning processes and tools. Prerequisite(s): MATH 132 or STAT 152 or equivalent, senior standing. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 458 - Design-Build for Construction Management**

Design-build techniques and concepts for a variety of project types understanding the technical aspects associated with design/construction of these projects as well as the financial and management aspects required for a successful completion. Design-construct team building. Liability issues. Prerequisite(s): CEM 100 or CEM 457 or CEE 409. Prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 459 - Quantitative Methods in Project Management**

Quantitative analysis techniques in project management. Introduction to quantitative decisions making, decision tree, simulation, linear programming, hypothesis testing, regression analysis, etc. Prerequisite(s): CEM 457 with a grade of C or better, or senior standing in major. Advanced Standing required. 3 credit(s)

### **CEM 470 - Construction Automation**

Automation applications, robotics, and analysis for construction, including, alignment, materials handling, and installation units. Location analysis from project site to fabrication shop. Repeatability and training considerations. Environmental influences. Prerequisite(s): CEM 454 with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 480 - Sustainable Construction**

Overview of sustainable design and construction. Introduction to green buildings, LEED assessment process, high-performance building, and green building material. Economic analysis of green buildings. Prerequisite(s): Laboratory science course, consent of instructor. 3 credit(s)

### **CEM 482 - Hazardous Waste Construction Operations**

Construction operations for hazardous waste sites and site remediation. On-site control techniques. Off-site disposal. Equipment and methods issues. Personnel protection and training. Prerequisite(s): CEM 454 with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 484 - Construction Site Water Management**

Management of water at construction sites. Prerequisite(s): CEM 330 with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 485 - Construction Law and Contracts**

Legal problems in the construction process. Stipulated sum, unit price, and cost-plus contracts. Construction lien rights and bond rights. Scope of work issues. Builders risk issues. Risk-shifting. Case studies. Prerequisite(s): CEM 453/453L with a grade of C or better. Advanced Standing required. 3 credit(s)

### **CEM 493 - Independent Study**

Independent study of a selected construction topic. Prerequisite(s): Consent of instructor. Advanced Standing required. 1-3 credit(s)

### **CEM 495 - Special Topics in Construction Management**

Experimental and other topics which may be of current interest in construction management. Prerequisite(s): Consent of instructor. Advanced Standing required. Note(s): Topics and credits to be announced. 1-4 credit(s)

## **Computer Science Department**

The Department of Computer Science offers courses and programs that provide students with a solid theoretical foundation as well as familiarity with several areas within experimental computer science. This solid foundation, combined with extensive hands-on application work, provides a balanced educational environment that prepares students for both the current employment market and advanced degree programs.

### **Accreditation**

Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org). Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) <http://www.abet.org> — B.S. in Computer Science.

### **Undergraduate Majors**

Bachelor of Science in Computer Science

Bachelor of Arts in Computer Science

### **Mission**

The mission of the Department of Computer Science is to educate future computer scientists in academic programs that are competitive with those of the best schools in the country.

### **Program Objectives**

The objectives of our undergraduate degree programs are to:

1. Provide students with the broad background skills necessary to learn, practice, and grow in computer science.
2. Provide students with the fundamental core and advanced knowledge of computer science.
3. Provide students with adequate skills for effective communication of computer science technicalities, both in written and oral forms.
4. Produce students who can use and practice computer science in various application areas.

### **Program Outcomes**

Each computer science graduate will be able to:

1. Analyze problems, and to identify the computing and/or mathematical techniques appropriate to their solutions.
2. Apply design and development principles in the construction of software systems.
3. Apply computer science theory and mathematical models to comprehend the tradeoffs involved in various design choices.
4. Use current tools or techniques to implement and evaluate programs or computer-based systems.
5. Function effectively on a team to accomplish a common goal.
6. Communicate effectively with a range of audiences.
7. Understand the professional, ethical, legal, and security impacts of computing on individuals, organizations, and society.
8. Appreciate an application area of computing and recognize the need to engage in continuing professional development.

Additional information on the mission, goals and objectives of the School of Computer Science is available online at [www.cs.unlv.edu](http://www.cs.unlv.edu).

## Admission to the Major

Minimum GPA: 2.25

Admission and transfer policies as described in the College of Engineering section.

## Department Policies

1. Grades of C (2.00) or higher are required in all immediate prerequisites of all engineering and computer science courses and in ENG 101 and 102.
2. Students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.

## Computer Science Major - Bachelor of Arts (BA)

Please see the UNLV Howard R. Hughes College of Engineering, Department of Computer Science web page at [www.cs.unlv.edu](http://www.cs.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at [www.engineering.unlv.edu/advising](http://www.engineering.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Analyze problems and identify the computing and/or mathematical techniques appropriate to their solutions
2. Apply design and development principles in the construction of software systems
3. Use current tools or techniques to implement and evaluate programs or computer-based systems
4. Apply computer science techniques and tools to solve problems in a chosen application area

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Computer Science Degree Requirements - Total 120 Credits
- General Education Requirements ..... Subtotal 36-40 Credits
- First-Year Seminar ..... Credits: 2-3
- English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3
- Constitutions ..... Credits: 3-6
- Mathematics ..... Credits: 4
- MATH 181 - Calculus I
- Distribution Requirement ..... Credits: 18
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
    - COM 101 - Oral Communication - 3 credits
    - PHIL 422 - Advanced Logic - 3 credits
    - One course in Fine Arts - 3 credits
  - Social Science: 9 credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking:
    - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BA in Computer Science ..... Subtotal: 61 Credits

Mathematics ..... Credits: 10

- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I

or

- MATH 365 - Computational Linear Algebra
- STAT 411 - Statistical Methods I

Philosophy ..... Credits: 3

- PHIL 114 - Introduction to Symbolic Logic

Computer Science ..... Credits: 24

- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 219 - Computer Organization
- CS 302 - Data Structures
- CS 326 - Programming Languages, Concepts and Implementation
- CS 370 - Operating Systems
- CpE 100 - Digital Logic Design I

Choose from CS courses numbered 300 or higher ..... Credits: 9

- Three 300+ level CS courses (students may also choose from MATH 466 and/or MATH 467.

Application Area ..... Credits: 15

Choose courses numbered 300 or higher from an area other than CS (must be approved by advisor).

Electives ..... Credits: 23

Free electives to ensure that minimum total credits are 120.

Total Credits: ..... 120

## Computer Science Major - Bachelor of Science (BS)

Please see the UNLV Howard R. Hughes College of Engineering, Department of Computer Science web page at [www.cs.unlv.edu](http://www.cs.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at [www.engineering.unlv.edu/advising](http://www.engineering.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Accreditation Board for Engineering and Technology  
[www.abet.org](http://www.abet.org)

## Learning Outcomes

1. Analyze problems and identify the computing and/or mathematical techniques appropriate to their solutions
2. Apply design and development principles in the construction of software systems
3. Apply design and development principles in the construction of software systems
4. Use current tools or techniques to implement and evaluate programs or computer-based systems
5. Function effectively on a team to accomplish a common goal

6. Communicate effectively with a range of audiences
7. Understand the professional, ethical, legal, and security impacts of computing on individuals, organizations, and society
8. Appreciate an application area of computing and recognize the need to engage in continuing professional development

### University Graduation Requirements

- Please see Graduation Policies for complete information

Computer Science Degree Requirements..... Total 120 Credits

General Education Requirements..... Subtotal 36-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics..... Credits: 4

- MATH 181 - Calculus I

Distribution Requirements ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - COM 101 - Oral Communication 3 credits
  - PHIL 422 - Advanced Logic 3 credits
  - One course in Fine Arts - 3 credits
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Computer Science..... Subtotal: 80 Credits

Mathematics..... Credits: 16

- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
- MATH 351 - Discrete Mathematics II
- MATH 365 - Computational Linear Algebra
- STAT 411 - Statistical Methods I

Philosophy ..... Credits: 3

- PHIL 114 - Introduction to Symbolic Logic

Technical Writing ..... Credits: 3

- ENG 407B - Fundamentals of Technical Writing

Computer Science..... Credits: 38

- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 219 - Computer Organization
- CS 301 - Social Implications of Computer Technology
- CS 302 - Data Structures
- CS 326 - Programming Languages, Concepts and Implementation
- CS 370 - Operating Systems
- CS 456 - Automata and Formal Languages
- CS 460 - Compiler Construction

- CS 472 - Software Product Design and Development I
- CS 477 - Analysis of Algorithms
- CpE 100 - Digital Logic Design I
- CpE 100L - Digital Logic Design I Laboratory

Sciences ..... Credits: 8

- BIOL 189 - Fundamentals of Life Science
- BIOL 197 - Principles of Modern Biology II

or

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II

or

- GEOL 101 - Exploring Planet Earth
- GEOL 102 - Earth and Life Through Time

or

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II

Choose from CS courses numbered 400 or higher Credits: 12

- 400+ level CS courses

Electives..... Credits: 4

Free electives to ensure that minimum total credits are 120.

Total Credits: ..... 120

### Optional Concentration Areas

Students who complete either the BS or the BA program in Computer Science may also pursue one of the following concentration areas by completing the listed courses with grades of B- or better:

Software Engineering ..... Credits: 12

- CS 457 - Database Management Systems
- CS 472 - Software Product Design and Development I
- CS 473 - Software Product Design and Development II

and

- CS 474 - Decision Environments for Software Product Development

Computer Networks..... Credits: 12

- CS 370 - Operating Systems
- CS 445 - Internet Security
- CS 465 - Computer Networks I

and either

- CS 466 - Computer Networks II

or

- CS 470 - Networks and Distributed Systems

### Information Assurance Concentration

Information Assurance..... Total Credits: 12

- CS 443 - Information Assurance
- CS 445 - Internet Security
- CS 448 - Computer Security

and one of the following:

- CS 441 - Advanced Internet Programming
- CS 449 - Computer and Network Forensics
- CS 457 - Database Management Systems
- CS 465 - Computer Networks I

Completion of one of these concentration area will result in the awarding of a certificate to the student by the Department of Computer Science.



## Computer Science Minor

Required Courses.....Total Credits: 27

- CpE 100 - Digital Logic Design I
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 219 - Computer Organization
- CS 302 - Data Structures

and nine additional credits of electives selected from CS courses numbered 300 or higher

or

- MATH 466 - Numerical Methods I

or

- MATH 467 - Numerical Methods II

## Information Technology Minor

Information Technology (ITE) is comprised of a set of topics encompassing technologies in Human Computer Interaction (HCI), information management, programming, information assurance, and web systems.

\*Subject to prior approval from Computer Science Department – Please see your College of Engineering Academic Advisor to discuss.  
Note 1: Student to choose one course in their respective field of study.  
Note 2: Students can elect either to register for CS 490 to study topics that prepare them for certification exams or to register for one of the pre-approved courses offered by College of Southern Nevada (CSN).  
The following is a list of pre-approved courses at CSN:

- CFT 211 Microsoft Networking I
- CFT 217 Security+
- CFT 263 Introduction to IT Project Management
- CFT 283 Oracle Database Administration II
- CFT Oracle PL/SQL Programming II
- CFT 216 Server+
- Topics available in CS 490:
- Oracle PL/SQL developer
- Oracle MYSQL developer
- Oracle Database SQL
- Oracle Java Standard Edition Programmer
- Microsoft Certified Solution Associate (MSCA) SQL Server
- Cisco Certified Network Associate (CCNA)

## Computer Science

### CS 115 - Introduction to Computers

Computer literacy. History of computing, description of basic hardware components, use of application software, introduction to Internet resources, uses of computers in society, and the impact of computerization on society. Prerequisite(s): MATH 96 or higher with a grade of C or better, or two years of high school math. SAT score of 500 or better, or ACT score of 20 or better 3 credit(s)

### CS 117 - Programming for Scientists and Engineers

Structured approach to programming and problem solving in FORTRAN. Emphasis placed on techniques of good programming style and on solving numerical problems encountered in science and engineering. Includes use of standard library routines. Prerequisite(s): MATH 181 or higher, with a grade of C or better.. 3 credit(s)

### CS 135 - Computer Science I

Problem-solving methods and algorithm development in a high-level programming language. Program design, coding, debugging, and documentation using techniques of good programming style. Program development in a powerful operating environment. Prerequisite(s): MATH

127 or MATH 128 or MATH 181 or higher, OR SAT math score of 630 or higher OR ACT math score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better. Lab/Lecture/Studio Hours: Three hours lecture and one hour lab. 3 credit(s)

### CS 140 - Computing Languages

Use of a single programming language for problem formulation and solution. Language varies each semester. Typical languages include Java, LISP, Prolog, Scheme, etc. Prerequisite(s): Ability to program in a high-level language. May be repeated if language is different. 1-3 credit(s)

### CS 202 - Computer Science II

Data structures and algorithms for manipulating linked lists. String and file processing. Recursion Software engineering, structured programming and testing, especially larger programs. Prerequisite(s): CS 135/L with a grade of C or better. 3 credit(s)

### CS 218 - Introduction to Systems Programming

Algorithms from systems programming including conversion, buffering, device drivers, assemblers and loaders. Use of system services, macros, and linkage conventions. Laboratory exercises programmed in assembly language. Prerequisite(s): CpE 100 and (CS 117 or CS 135). Prerequisites must be completed with a grade of C or better. 3 credit(s)

### CS 219 - Computer Organization

Basic organization of digital computers, including I/O units, arithmetic logic units, control units, and memory organization. Number and character representations. Instruction sets and addressing. Microprogramming. Prerequisite(s): CS 218 and CS 202. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### CS 270 - Introduction to Internet & World Wide Web

Introduction to Internet and World Wide Web tools and resources, including Web browsers, robots and search engines, agents, multimedia authorizing environments, electronic publishing, virtual reality, anonymizing and the use of relative identities, Internet security, digital watermarking, and Web censorship. Programming skills covered in corequisite lab. Intended for non-CS majors. Corequisite(s): CS 270L. Prerequisite(s): CS 115 or equivalent, with a grade of C or better. 2 credit(s)

### CS 270L - Introduction to Internet & World Wide Web - Lab

Acquaints students with the underlying theory behind, and practical experience in, the use of Interactive Internet and World Wide Web resources in such areas as education, scholarship and research, interpersonal and group communication, virtual communities, electronic publishing, and electronic commerce. Corequisite(s): CS 270. Prerequisite(s): CS 115 or equivalent, with a grade of C or better. 1 credit(s)

### CS 301 - Social Implications of Computer Technology

In-depth examination of moral and ethical issues created by advancing computer technology. Review of ethical theories and examination of issues in malfunction liability, privacy, power, ownership and intellectual property. Discussion of social trends and their possible effects. Extensive reading, classroom discussion, and class presentations required. Prerequisite(s): COM 101, CS 218. Prerequisites must be completed with a grade of C or better. 1 credit(s)

### CS 302 - Data Structures

Introduction to sequential and linked structures. File access including sequential, indexed sequential and other file organizations. Internal structures including stacks, queues, trees, and graphs. Algorithms for implementing and manipulating structured objects. Big-O-notation. Prerequisite(s): CS 202 and MATH 181. 3 credit(s)

### CS 326 - Programming Languages, Concepts and Implementation

Design, evaluation and implementation of programming languages. Includes data types and data abstraction, sequence control and procedural abstraction, parameter passing techniques, scope rules, referencing environments and run-time storage management. Study and evaluation of a number of current programming languages. Prerequisite(s): CS 302 and either CS 219 or CpE 300. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 3 credit(s)

**CS 341 - Internet Programming**

Fundamentals of Web page design, use of environment and SSI variables, CGI-Bin programming concepts with both scripting languages and interpreted and compiled languages, creation of advanced form applications, design of search/index utilities Web databases, design and implementation of interactive Web sites. Corequisite(s): CS 341L. Prerequisite(s): CS 219 or CpE 310L and CS 202. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 2 credit(s)

**CS 341L - Internet Programming Lab**

Helps develop practical skills and applies industry-wide standards and practices for activities such as Web design and layout, electronic publishing, network communications, cybermedia authoring systems, animations, virtual reality, and the development of executable content. Corequisite(s): CS 341. Prerequisite(s): CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 1 credit(s)

**CS 351 - Introduction to Multimedia**

Nature and development of digital multimedia, including content selection, scripting, editing, transforming, and producing multimedia material. Basic multimedia development environments including analog and digital image and video capturing, motion development tools, scripting environments, and meta-level directing software. Semester project involves creation of an entire multimedia cd. Corequisite(s): CS 351L. Prerequisite(s): CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 2 credit(s)

**CS 351L - Introduction to Multimedia Lab**

Develops practical skills and applies industry-wide standards and practices for the creation of interactive multimedia, including, but not limited to, use of such development tools as screen capture utilities, analog and digital video capture environments, motion development programs, and scripting and directing programs. Corequisite(s): CS 351. Prerequisite(s): CS 202 or equivalent. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 1 credit(s)

**CS 370 - Operating Systems**

Operating systems organization, sharing and allocation of system resources, protection mechanisms, and integration of system components. Prerequisite(s): CS 302 and either CS 219 or CpE 300. Prerequisites must be completed with a grade of C or better. Advanced Standing Required. 3 credit(s)

**CS 417 - Introduction to Computer Simulation**

Simulation as a tool for the investigation of random phenomena. Emphasis on discrete simulation. Preparation of input for simulation and analysis of results. Use of SIMSCRIPT for discrete simulation. Comparison of discrete and continuous simulation. Simulation problems in several disciplines examined in detail. Prerequisite(s): CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better. 3 credit(s)

**CS 420 - Human-Computer Interaction**

Overview of human-computer interaction principles, guidelines, methods, and tools. User research, low-fidelity prototyping, participatory design, usability evaluation, visual design, usability principles, and affordances. Graphical user interface implementation, including design patterns, event handling, widget toolkits, languages, and development environments. Prerequisite(s): CS 302 with a grade of C or better. 3 credit(s)

**CS 441 - Advanced Internet Programming**

Advanced Internet programming design and applications including client/server technologies and environment and software, client/server network operating systems, client/server database management systems, data warehousing environments, data mining, basic networking models and protocols, CASE tools, Groupware, Middleware, Internet security, privacy considerations. Corequisite(s): CS 441L. Prerequisite(s): CS 341 and CS 370. Prerequisites must be completed with a grade of C or better. 2 credit(s)

**CS 441L - Advanced Internet Programming Lab**

Helps student develop practical skills and learn to apply industry-wide standards and practices for advanced Internet and Internet 2 applications. Corequisite(s): CS 441. Prerequisite(s): CS 341 and CS 370. Prerequisites must be completed with a grade of C or better. 1 credit(s)

**CS 443 - Information Assurance**

Introduction to the principles of information assurance. Security awareness, Survey of information security technologies, cryptography, management and administration techniques necessary to improve information security and respond to a security breach, survey of threats to information security, privacy in computing, legal and ethical issues relating to information security, and case studies. This course is crosslisted with CS 643. Credit at the 600-level requires additional work. Prerequisite(s): CS 302 with a grade of C or better. 3 credit(s)

**CS 445 - Internet Security**

Internet security theory and practice, advanced IP concepts, the concepts of stimulus and response in the context of securing a network, network packet and traffic analysis, internet protocol (IP) vulnerabilities, packet filtering, intrusion detection, internet exploits, exploit signatures, internet forensics, network security investigation. Prerequisite(s): CS 370 with a grade of C or better. 3 credit(s)

**CS 448 - Computer Security**

Overview of computer security, threats, vulnerabilities and controls. Physical security, computer security policies and implementation plans, and computer forensics including penetration testing and investigation. Management issues. Legal, privacy and ethical issues. Prerequisite(s): CS 370 with a grade of C or better. 3 credit(s)

**CS 449 - Computer and Network Forensics**

Basics of Computer Forensics and Network Forensics. How to protect your privacy on the internet: Email, obfuscation, web sites and servers. Encryption, data hiding, and hostile code. Investigating Windows and Unix. File system recovery/analysis and file management in different OSes. Technical and legal issues regarding digital evidence collection and forensics analysis. Prerequisite(s): CS 445 or CS 448. Prerequisites must be completed with a grade of C or better. 3 credit(s)

**CS 451 - Multimedia Systems Design**

Theory and practice of multimedia system design overview. High-level topics include multimedia content and formats, underlying technologies, digital cinematography, scripting, storyboarding, CD-ROM production and online publication, porting multimedia to the Web. Emphasis on the design process and the seamless integration of content in an interactive environment. Corequisite(s): CS 451L. Prerequisite(s): CS 351 with a grade of C or better. 3 credit(s)

**CS 451L - Multimedia Systems Design Laboratory**

Helps student develop practical skills and learn to apply industry-wide standards and practices for the design of multimedia systems. Corequisite(s): CS 451. Prerequisite(s): CS 351 with a grade of C or better. 1 credit(s)

**CS 456 - Automata and Formal Languages**

Regular expressions. Regular, context-free, and unrestricted grammars. Finite and pushdown automata. Turing machines and the halting problem; introduction to decidability. Prerequisite(s): CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better. 3 credit(s)

**CS 457 - Database Management Systems**

Concepts and structures necessary for design and implementation of a database management system. Survey of current database management systems and use of a DBMS. Prerequisite(s): CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better. 3 credit(s)

**CS 458 - Introduction to Data Mining**

Introduction to basic concepts in data mining. Topics include association-rule mining, information extraction, web mining, categorization, and clustering. Prerequisite(s): CS 302 and MATH 251. Prerequisites must be completed with a grade of C or better. 3 credit(s)

**CS 460 - Compiler Construction**

Current methods in the design and implementation of compilers. Construction of the components of an actual compiler as a term project. Prerequisite(s): CS 326 and CS 456. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 463 - Computer Architecture**

Introduction to computer architecture. Topics include basic computer organization concepts; history and taxonomy of computer architectures; language and software influences on architecture; instruction set design; stack, array, data flow, and database machines; multiprocessor and network architectures; and fault tolerant designs. Prerequisite(s): CS 370 with a grade of C or better. 3 credit(s)

### **CS 465 - Computer Networks I**

An introduction to the design and implementation of computer communication networks, their protocols and applications. It covers the technologies and standards in data transmission, telecommunication networks, network architectures, networking hardware, wireless networks, and the basis of the Internet including UDP and TCP as well as a number of application protocols. Prerequisite(s): CS 370 with a grade of C or better. 3 credit(s)

### **CS 466 - Computer Networks II**

Explores advanced topics in computer networks, the protocols, algorithms, hardware, and performance issues, especially in TCP/IP networks. Details of IP routing algorithms, quality of service, protocol implementation issues, router architecture and types, various TCP versions and their performance, the related telecommunication networks, and wireless technologies are discussed. Prerequisite(s): CS 465 with a grade of C or better. 3 credit(s)

### **CS 469 - Introduction to Digital Image Processing**

Background and basics of digital image processing. Topics include: the human visual system, image representation, sampling, image mathematics, and geometry, image enhancement, smoothing and sharpening, the fast Fourier transform, and a survey of image restoration methods. Prerequisite(s): ATH 365, STAT 411, either CS 117 or CS 135. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 470 - Networks and Distributed Systems**

Explores protocols and experiments with creating and implementing new protocols. In addition, students will be introduced to concepts such as deadlocks in networks/distributed applications, communication in distributed systems (among other RPC/RMI and the client server model in more detail), synchronization, reliability, transparency, and atomicity/transaction semantics. Prerequisite(s): CS 465 with a grade of C or better. 3 credit(s)

### **CS 471 - Program Derivation**

Introduction to the formal derivation of computer programs from program specifications. Review of the logical and notational Prerequisite(s): needed for formal derivation. Guarded commands and the predicate transformer WP. Developing loops from invariants. Program development via sequence of refinements. Prerequisite(s): MATH 351 and CS 326. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 472 - Software Product Design and Development I**

Current techniques in software design presented with emphasis on architecture first development. Introduction to the processes involved in development. Practice architectural design through a series of homework problems. Students work in teams to prepare the architecture for a software product. Prerequisite(s): CS 326 and CS 370 and consent of instructor. Prerequisites must be completed with a grade of C or better. Department consent required. 3 credit(s)

### **CS 473 - Software Product Design and Development II**

Synthesis (term project) course to involve students, working in teams, in all of the activities necessary to define, model, implement, test, document, and deliver a program product. Students practice Object-Oriented and Component Based development and utilize UML and CASE tools to model the product and document the process. Prerequisite(s): CS 472 with a grade of C or better. 3 credit(s)

### **CS 474 - Decision Environments for Software Product Development**

Term project course to involve students, working in teams, with all of the activities and tools necessary to measure progress and monitor the development of a software product. Students utilize CASE tools for planning, for requirements management, for configuration management, for change

management, and for product and process measurement for a product development project. Prerequisite(s): CS 472 with a grade of C or better. 3 credit(s)

### **CS 477 - Analysis of Algorithms**

Analysis of the time and space complexity of algorithms. Techniques for efficient algorithm design and effect of structure choice on efficiency. Fast algorithms for problems such as set, graph and matrix manipulations, pattern matching, sorting, and storage organization. Exponential time problems and introduction to NP-completeness. Prerequisite(s): CS 302 and MATH 351. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 480 - Computer Graphics**

Graphics hardware, software and applications. Data structures for graphics, graphics languages, computer-aided design, and three-dimensional graphics. Prerequisite(s): CS 202 and MATH 365. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 482 - Artificial Intelligence**

Survey of current artificial intelligence technologies: game playing, theorem-proving, natural language processing, pattern recognition, and heuristic programming. Prerequisite(s): CS 302 and PHIL 422. Prerequisites must be completed with a grade of C or better. 3 credit(s)

### **CS 489 - Advanced Computer Science Topics**

Undergraduate-level course in advanced topics of computer science, depending upon the interest of faculty and student. Prerequisite(s): Department Consent Required. 3 credit(s)

### **CS 490 - Independent Study**

Library research and reports on topics of computer science interest. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

### **CS 494 - Internship in Computer Science**

A summer internship in an approved, computer science related position. This course will be offered only in the summer and not during the fall or spring semesters. Students will apply computer science concepts in a work-related setting. A final report is required. Prerequisite(s): CS 302 with a grade of C or better and prior approval by the school and employer. 1-3 credit(s)

### **CS 495 - Senior Project Development I**

This course will give students the opportunity to develop a prototype piece of software from design through implementation, including documentation and presentation. May be done in cooperation with an external entity and may be entered into the College of Engineering's Senior Design Competition. This course focuses on selecting the project, initial requirements, problem analysis and problem specification. Prerequisite(s): CS 302 with a grade of C or better. 1 credit(s)

### **CS 496 - Senior Project Development II**

This course will give students the opportunity to develop a prototype piece of software from design through implementation, including documentation and presentation. May be done in cooperation with an external entity and may be entered into the College of Engineering's Senior Design Competition. This course focuses on implementing, testing, documenting and presenting the prototype solution to the problem selected in CS 495. Prerequisite(s): CS 495 with a grade of C or better. 2 credit(s)

### **ITE 451 - Managing Big Data and Web Databases**

This Course will teach the concepts and techniques of databases for real-time web and big data applications. The course will focus primarily on NoSQL, object oriented, and XML databases. Topics include characteristics and significance of NoSQL databases, NoSQL data formats, key and value pairs, basic schema in NoSQL, and table structures and data types. Projects in SQLite, MongoDB, and Postgres will be developed to show the capabilities of these databases. Corequisite(s): CS 270, CS 270L. Prerequisite(s): CS 140 or CS 135. 3 credit(s)



# Electrical and Computer Engineering Department

The Department of Electrical and Computer Engineering offers undergraduate degrees in electrical engineering and computer engineering. Both curricula are designed to provide students with the foundation necessary to enter either professional engineering employment or an engineering graduate program immediately after graduation. Students are prepared for lifelong practice by emphasizing the application of fundamental scientific and mathematical principles to engineering methodologies. The innovative art of engineering design is integrated throughout the curriculum from the freshman design course to the culminating capstone senior design course in the senior year.

## Department Mission

The mission of the Department of Electrical and Computer Engineering is to serve society as a center of higher learning by providing an electrical and computer engineering education to society's future leaders, innovators and engineers.

## Department Goals

- Provide undergraduate, graduate and professional education.
- Create knowledge through research.
- Disseminate knowledge through publication.
- Provide private and public service, in as much as said service educates, creates and disseminates knowledge, or functions as a repository of knowledge.

## Undergraduate Majors

Bachelor of Science in Computer Engineering  
Bachelor of Science in Electrical Engineering

## Computer Engineering Major- Bachelor of Science in Engineering (BSE)

Please see the UNLV Howard R. Hughes College of Engineering web page at [www.unlv.edu/engineering](http://www.unlv.edu/engineering) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Howard R. Hughes College of Engineering Advising Center at [www.engineering.unlv.edu/advising](http://www.engineering.unlv.edu/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Accreditation Board for Engineering and Technology  
[www.abet.org](http://www.abet.org)

## Program Objectives

The educational objectives of the Bachelor of Science in Engineering – Computer Engineering Major are to transmit, create, and apply knowledge so that:

1. The graduate can practice in the field of Computer Engineering.
2. The graduate can be admitted to and successfully complete a graduate program in Computer Engineering.

## Program Goals

To achieve the above program objectives, the Computer Engineering program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate interpersonal skills
3. The knowledge and skills to be a responsible citizen

## Learning Outcomes

To achieve the above objectives and goals, each graduate of the Computer Engineering Major will attain the following outcomes before graduation:

1. The appropriate technical knowledge and skills
  - a. An ability to apply mathematics through differential and integral calculus,
  - b. An ability to apply advanced mathematics such as differential equations and discrete mathematics,
  - c. An ability to apply knowledge of basic sciences,
  - d. An ability to apply knowledge of computer science
  - e. An ability to apply knowledge of probability and statistics,
  - f. An ability to apply knowledge of engineering
  - g. An ability to design a system, component, or process to meet desired needs within realistic constraints
  - h. An ability to identify, formulate, and solve engineering problems
  - i. An ability to analyze and design software and systems containing hardware and software
  - j. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
  - k. An ability to design and conduct experiments, as well as to analyze and interpret data
2. The appropriate interpersonal skills
  - a. An ability to communicate effectively
  - b. An ability to function on multidisciplinary teams
3. The knowledge and skills to be responsible citizens
  - a. An understanding of professional and ethical responsibility
  - b. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
  - c. A recognition of the need for, and an ability to engage in life-long learning
  - d. A knowledge of contemporary issues
  - e. A knowledge of the basic content and concepts of the U.S. and Nevada constitutions

## Admission to the Major

Minimum GPA: 2.0

To enter the Computer Engineering (CpE) Major, a student must be admitted to the College of Engineering. Admission and transfer policies are described in the College of Engineering section. Students who have been admitted to the College of Engineering and are interested in being admitted to the CpE Major will be placed in the Computer Engineering Pre-major (CpEPRE). A student in the CpEPRE is eligible to submit an application to the Academic Advising Center for advanced standing in the CpE Major after completing the 22 credit CpEPRE curriculum listed below. Students who have not completed the CpEPRE curriculum and do not have advanced standing in the CpE Major cannot enroll in upper division Computer Engineering courses except for those listed below in the CpEPRE Extended Curriculum.



## University Graduation Requirements

- Please see Graduation Policies for complete information

### Department Policies

Regardless of catalog of graduation students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog. All mathematics, science, and computer science courses, and ENG 101 and ENG 102 must be completed with a grade of C or better. All engineering courses and their immediate prerequisite courses must be completed with a grade of C or better. Electrical and computer engineering students should register for EE 497 - Senior Design Project I in their next to last semester before their anticipated date of graduation.

Computer Engineering Degree Requirements .....Total: 127-133  
Computer engineering is the application of scientific and mathematical principles to the design and analysis of all hardware, software, and operating systems for a computer system. Computer engineering integrates several fields of electrical engineering and computer science and includes the study of hardware, software, and their integration. As such, students learn the principles of electricity, signals and systems, and technologies used in making digital devices. They further study programming languages, data structures, operating systems, and databases. The knowledge acquired during the first three years of the undergraduate program will culminate in architecture and design-related courses in which students experience the cost-performance tradeoffs associated with mitigating hardware issues to software.

General Education Requirements ..... Subtotal: 37-40 Credits  
First-Year Seminar ..... Credits: 2-3  
English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
(see note 2 below)

Constitutions ..... Credits: 4-6  
Recommended courses:

- HIST 100 - Historical Issues and Contemporary Society
- or

- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists  
US Constitution

- HIST 101 - United States: Colonial Period to 1877
- HIST 106 - European Civilization Since 1648

Nevada Constitution

- HIST 102 - United States Since 1877
- HIST 217 - Nevada History
- PSC 100 - Nevada Constitution

Mathematics ..... Credits: 4  
• MATH 181 - Calculus I

Distribution Requirement ..... Credits: 18  
Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits (see note 1 below)
  - PHIL 242 - Ethics For Engineers and Scientists
  - COM 216 - Survey of Communication Studies
  - One elective course to fulfill the Fine Arts Distribution Requirement
- Social Science: 9 credits
  - ECON 190 - Global Economics (Satisfies international requirement)
  - EGG 307 - Engineering Economics (see note 1 below)

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Computer Engineering Pre-major (CpEPRE) Curriculum

Required Mathematics and Natural Science Courses..... Credits: 29  
Courses that satisfy the required Mathematics and Natural Science courses have an (\*) in the Pre-major (CpEpre) and advanced standing courses section.

Sciences ..... Credits: 8

- CHEM 121A - General Chemistry I \*
- CHEM 121L - General Chemistry Laboratory I
- PHYS 180 - Physics for Scientists and Engineers I \*
- PHYS 180L - Physics for Scientists and Engineers Lab I \*

Mathematics ..... Credits: 8

- MATH 181 - Calculus I \*
- MATH 182 - Calculus II \*

Electrical and Computer Engineering ..... Credits: 3

- CpE 100 - Digital Logic Design I \*\*

Computer Science ..... Credits: 3

- CS 135 - Computer Science I \*\*

Computer Engineering Pre-Major (CpEpre) Extended Curriculum (can be taken as Pre-Major or Advanced Standing students)

Sciences ..... Credits: 4

- PHYS 181 - Physics for Scientists and Engineers II \*
- PHYS 181L - Physics for Scientists and Engineers Lab II \*

Mathematics ..... Credits: 9

- MATH 251 - Discrete Mathematics I \*
- MATH 431 - Mathematics for Engineers and Scientists I \*
- STAT 411 - Statistical Methods I \*

Electrical and Computer Engineering ..... Credits: 14

- CpE 200 - Digital Logic Design II \*\*
- CpE 200D - Digital Logic Design II Discussion
- CpE 200L - Digital Logic Design II Laboratory \*\*
- CpE 300 - Digital System Architecture and Design \*\*
- EE 220 - Circuits I \*\*
- EE 220D - Circuits I Discussion \*\*
- EE 221 - Circuits II \*\*
- EE 221L - Circuits II Laboratory \*\*

Major Requirements -

BS in Computer Engineering Major .....Subtotal: 68 Credits

Required Mathematics and Natural Science Courses..... Credits: 29

Courses that satisfy the required Mathematics and Natural Science courses have an (\*) in the Pre-major (CpEpre) and advanced standing courses section.

Required Fundamental Computer

Engineering Courses ..... Credits: 46

Each student must complete the following courses:

Courses that satisfy the required Fundamental Computer Engineering courses have an (\*\*) in the Pre-major (CpEpre) and advanced standing courses section.

- CpE 301 - Embedded System Design
- CpE 301L - Embedded System Design Laboratory for CpE
- CpE 302 - Digital System Design

- CS 202 - Computer Science II
- CS 218 - Introduction to Systems Programming
- CS 302 - Data Structures
- CS 370 - Operating Systems
- EE 320 - Engineering Electronics I
- EE 320L - Engineering Electronics I Laboratory
- EE 497 - Senior Design Project I
- EE 498 - Senior Design Project II

Computer Engineering Core Requirements..... Credits: 12

Students must select and complete at least 6 credits in at least 2 concentration areas from the following four areas: (see note 5 below)

Digital Electronic Design:

- EE 421 - Digital Electronics
- CpE 408 - VLSI Physical Design, Verification and Testing

Computer Networks:

- CpE 400 - Computer Communications Networks
- CS 445 - Internet Security

Computer System Design:

- CpE 403 - Advanced Embedded System Design
- CpE 404 - Modern Processor Architecture

Security Systems:

- CpE 405 - Information Coding Systems
- CpE 407 - Biometrics
- CS 445 - Internet Security

Computer Engineering Labs..... Credit: 1

Students must select and complete at least 1 lab credit from the following list:

- CpE 300L - Digital Systems Architecture and Design Laboratory
- EE 340L - Electric Power Engineering Laboratory
- EE 370L - Feedback and Control Systems Laboratory
- EE 420L - Engineering Electronics II Laboratory
- EE 421L - Digital Electronics Laboratory
- EE 450L - Solid State Characterization Laboratory
- EE 460L - Communication Systems Lab
- EE 480L - Digital Signal Processing Laboratory

Professional Electives ..... Credits: 6  
(see note 3 below)

Mathematics/Science Elective ..... Credits: 3  
(see note 4 below)

Minimum Credits: ..... 127-133

## Notes

1. Please see Department approved lists available in the Department office or Academic Advising Center, for courses in social science, humanities, and fine arts. In addition, ECON 190, EGG 307, PHIL 242, and COM 216 are required.
2. Every student must complete a three-credit Second-Year Seminar course. PHIL 242 may satisfy the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.
3. Professional Electives: Professional electives must be electrical or computer engineering courses. Students are encouraged to select sequences of at least two courses in a given field. All professional electives must be approved by the Department. A list of approved professional electives is available through the department office or Academic Advising Center. Students who want to apply a professional elective that is not on the approved list towards their computer engineering major must obtain the Department Chair's and the Undergraduate Curriculum Committee's Chair's approval.

4. Mathematics/Science Elective. The mathematics/science elective must be from mathematics courses (MATH, STAT) or natural science courses (BIOL, CHEM, PHYS). All mathematics/science electives must be approved by the Department. A list of approved mathematics/science electives is available through the department office or Academic Advising Center. Students who want to apply a mathematics/science elective that is not on the approved list towards their computer engineering major must obtain the Department Chair's and the Undergraduate Curriculum Committee's Chair's approval.

5. CS 445 - Internet Security course cannot be used to satisfy requirements for both the Computer Networks Core and Security System Core.

## Electrical Engineering Major - Bachelor of Science in Engineering (BSE)

Please see the UNLV Electrical and Computer Engineering department web page at <http://ece.unlv.edu/> for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Engineering Advising Center at <http://engineering.unlv.edu/advising/>

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Engineering Accreditation Commission of ABET <http://www.abet.org>

## Electrical Engineering Program Objectives

The program educational objectives of the Bachelor of Science in Engineering – Electrical Engineering Major are to transmit, create, and apply knowledge so that:

1. The graduate can practice in the field of electrical engineering.
2. The graduate can be admitted to and successfully complete a graduate program in electrical engineering.

## Electrical Engineering Program Goals

To achieve the above program objectives, the Electrical Engineering program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate interpersonal skills
3. The knowledge and skills to be a responsible citizen

## Electrical Engineering Program Outcomes

1. To achieve the above objectives and goals, each graduate of the Electrical Engineering Major will attain the following outcomes before graduation:

- a. The appropriate technical knowledge and skills
- b. An ability to apply mathematics through differential and integral calculus,
- c. An ability to apply advanced mathematics such as differential equations, linear algebra, complex variables, and discrete mathematics,
- d. An ability to apply knowledge of basic sciences,
- e. An ability to apply knowledge of computer science
- f. An ability to apply knowledge of probability and statistics,
- g. An ability to apply knowledge of engineering
- h. An ability to design a system, component, or process to meet desired needs within realistic constraints

- i. An ability to identify, formulate, and solve engineering problems
  - j. An ability to analyze and design complex electrical and electronic devices
  - k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
  - l. An ability to design and conduct experiments, as well as to analyze and interpret data
2. The appropriate interpersonal skills
    - a. An ability to communicate effectively
    - b. An ability to function on multidisciplinary teams
  3. The knowledge and skills to be responsible citizens
    - a. An understanding of professional and ethical responsibility
    - b. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
    - c. A recognition of the need for, and an ability to engage in life-long learning
    - d. A knowledge of contemporary issues
    - e. A knowledge of the basic content and concepts of the U.S. and Nevada constitutions

## Admission to the Major

Minimum GPA: 2.0

To enter the Electrical Engineering (EE) Major, a student must be admitted to the College of Engineering. Admission and transfer policies are described in the College of Engineering section. Students who have been admitted to the College of Engineering and are interested in being admitted to the EE Major will be placed in the Electrical Engineering Pre-major (EEGPRE). A student in the EEGPRE is eligible to submit an application to the Advising Center for advanced standing in the EE Major after completing the 23 credit EEGPRE curriculum listed as an (\*) in Major Requirements. Students who have not completed the EEGPRE curriculum and do not have advanced standing in the EE Major cannot enroll in upper division Electrical Engineering courses except for those in the EEGPRE Extended Curriculum listed as a (\*\*) in the Major Requirements.

## Department Policies

Regardless of catalog of graduation students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog. All mathematics, science, and computer science courses, and ENG 101 and 102 must be completed with a grade of C or better. All engineering courses and their immediate prerequisite courses must be completed with a grade of C or better. Electrical and computer engineering students should register for EE 497 - Senior Design Project I in their next to last semester before their anticipated date of graduation. Students should register for Senior Design I, in their next-to-last semester of expected graduation.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Electrical Engineering Major

Degree Requirements.....Total: 132-135 Credits

General Education Requirements..... Subtotal: 34-37 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

(see note 1 below)

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists  
US Constitution

- HIST 101 - United States: Colonial Period to 1877

- HIST 106 - European Civilization Since 1648

Nevada Constitution

- HIST 102 - United States Since 1877

- HIST 217 - Nevada History

- PSC 100 - Nevada Constitution

Mathematics..... Credits: (Fulfilled by Major Requirements)

- MATH 181 - Calculus I

Distribution Requirements ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:9 credits

- PHIL 242 - Ethics For Engineers and Scientists (see note 1 & 2 below)

- COM 216 - Survey of Communication Studies (see note 2 below)

- One elective course in Fine Arts - 3 credits

- Social Science: 9 credits

- ECON 190 - Global Economics (satisfies International Requirement)

- EGG 307 - Engineering Economics (see note 2 below)

- Life and Physical Sciences and Analytical Thinking:

- Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Electrical Engineering .....Subtotal: 98 Credits

(\*) signifies courses students are required to take in the Pre-major (EEGPRE) curriculum

(\*\*) signifies courses students are required to take in the Pre-major (EEGPRE) Extended curriculum (can be taken as Pre-major or Advanced Standing students)

Required Mathematics, and Natural Science Courses.... Credits: 29

Each student must complete the following courses:

- CHEM 121A - General Chemistry I (\*)

- CHEM 121L - General Chemistry Laboratory I

- CS 117 - Programming for Scientists and Engineers (\*)

or

- CS 135 - Computer Science I (\*)

- MATH 181 - Calculus I - fulfills the General Education Mathematics Requirement. (\*)

- MATH 182 - Calculus II (\*)

- MATH 283 - Calculus III (\*\*)

- MATH 431 - Mathematics for Engineers and Scientists I (\*\*)

- MATH 432 - Mathematics for Engineers and Scientists II (\*\*)

or

- MATH 459 - Elementary Complex Analysis (\*\*)
- PHYS 180 - Physics for Scientists and Engineers I (\*)
- PHYS 180L - Physics for Scientists and Engineers Lab I (\*)
- PHYS 181 - Physics for Scientists and Engineers II (\*\*)
- PHYS 181L - Physics for Scientists and Engineers Lab II (\*\*)

Required Fundamental Electrical Engineering Courses.. Credits: 33

Each student must complete the following courses:

- CpE 100 - Digital Logic Design I (\*)
- CpE 200 - Digital Logic Design II (\*\*)
- CpE 200D - Digital Logic Design II Discussion
- CpE 200L - Digital Logic Design II Laboratory (\*\*)
- EE 220 - Circuits I (\*\*)
- EE 220D - Circuits I Discussion (\*\*)
- EE 221 - Circuits II (\*\*) (\*\*)
- EE 221L - Circuits II Laboratory
- EE 320 - Engineering Electronics I
- EE 320L - Engineering Electronics I Laboratory
- EE 330 - Engineering Electromagnetics I
- EE 360 - Signals and Systems I
- EE 360D - Signals and Systems I - Discussion
- EE 361 - Signals and Systems II
- EE 370 - Classical Feedback and Control Systems
- EE 497 - Senior Design Project I
- EE 498 - Senior Design Project II

Electrical Engineering Core Requirements ..... Credits: 18

Students must select and complete one course in six areas:

Computers:

- CpE 300 - Digital System Architecture and Design
- CpE 301 - Embedded System Design
- CpE 302 - Digital System Design

Electronics:

- EE 420 - Engineering Electronics II
- EE 421 - Digital Electronics

Electromagnetism:

- EE 430 - Transmission Lines
- EE 431 - Engineering Optics
- EE 432 - Antenna Engineering
- EE 436 - Active and Passive Microwave Engineering

Power:

- EE 340 - Introduction to Electrical Power Engineering

Solid State:

- EE 450 - Solid State Devices

Communications:

- EE 460 - Introduction to Communication Systems

Controls:

- EE 472 - Digital Control Systems

Digital Signal Processing:

- EE 480 - Digital Signal Processing

Laboratory Requirements ..... Credits: 5

Students must select and complete four laboratory credits from:

- CpE 300L - Digital Systems Architecture and Design Laboratory
- CpE 310L - Embedded Systems Design Laboratory for EE
- EE 340L - Electric Power Engineering Laboratory
- EE 370L - Feedback and Control Systems Laboratory
- EE 420L - Engineering Electronics II Laboratory
- EE 421L - Digital Electronics Laboratory
- EE 450L - Solid State Characterization Laboratory
- EE 480L - Digital Signal Processing Laboratory

Professional Electives ..... Credits: 6

(see note 3 below)

Mathematics/Science Elective ..... Credits: 3  
(see note 4 below)

Total Credits: ..... 128-133

## Notes

1. Every student must complete a three-credit Second-Year Seminar course. Course PHIL 242 satisfies the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.
2. Please see department approved lists available in the department office or Advising Center, for courses in social science, humanities, and fine arts. In addition, ECON 190, EGG 307 and PHIL 242 and COM 216 are required.
3. Professional Electives: Professional electives must be electrical or computer engineering courses. Students are encouraged to select sequences of at least two courses in a given field. All professional electives must be approved by the Department. A list of approved professional electives is available through the department office or Advising Center. Students who want to apply a professional elective that is not on the approved list towards their EE major must obtain the Department Chair's and the Undergraduate Curriculum Committee's Chair's approval.
4. Mathematics/Science Elective. The mathematics/science elective must be from mathematics courses (MATH, STAT) or natural science courses (BIOL, CHEM, PHYS). All mathematics/science electives must be approved by the Department. A list of approved mathematics/science electives is available through the department office or Academic Advising Center. Students who want to apply a mathematics/science elective that is not on the approved list towards their EE major must obtain the Department Chair's and the Undergraduate Curriculum Committee's Chair's approval.

## Electrical and Computer Engineering

### CpE 100 - Digital Logic Design I

Logic gates. Simplification of Boolean functions. Design and testing of combinational and sequential circuits including code converters, multiplexers, adders, and synchronous counters. Prerequisite(s): MATH 127 or MATH 128 or MATH 181 or higher or SAT MATH score of 630 or higher or ACT Score of 28 or higher. MATH 127 or MATH 128 must be completed with a grade of C or better. 3 credit(s)

### CpE 100L - Digital Logic Design I Laboratory

Logic gates, simplification of Boolean functions, design and testing of combinational and sequential circuits including code converters, multiplexers, adders, and synchronous counters. Corequisite(s): CpE 100. Note(s): For non-electrical and non-computer engineering majors only. 1 credit(s)

### CpE 200 - Digital Logic Design II

Design of sequential circuits, finite state machines (FSMs), and arithmetic circuits. Timing analysis. Use of programmable logic devices (PLDs) and hardware description languages (HDLs). Assembly language. Prerequisite(s): CpE 100 with a grade of C or better. 3 credit(s)

### CpE 200D - Digital Logic Design II Discussion

HDL tools and assembly language. Prerequisite(s): CpE 100 with a grade of C or better. 0 credit(s)

### CpE 200L - Digital Logic Design II Laboratory

Design of sequential circuits, finite state machines (FSMs), and arithmetic circuits. Timing analysis. Use of programmable logic devices (PLDs) and hardware description languages (HDLs). Assembly language. Corequisite(s): CpE 200. Prerequisite(s): CpE 100 with a grade of C or better. 1 credit(s)



**CpE 260 - Signals and Systems for Computer Engineers**

Real and complex signals and linear time invariant (LTI) systems. Signal analysis using linear combinations of signals from linear signal spaces. Analysis of LTI systems described by linear constant coefficient differential equation using zero input and zero state responses, homogeneous and particular response, and the Laplace transform. Prerequisite(s): MATH 182 with a grade of C or better. 3 credit(s)

**CpE 300 - Digital System Architecture and Design**

Design of dedicated digital systems and general microprocessors using HDL tools and platforms. RISC Instruction sets and assembly language. Datapath and Control Unit design. Performance analysis. Memory organization. Prerequisite(s): CpE 200 with a grade of C or better. 3 credit(s)

**CpE 300L - Digital Systems Architecture and Design Laboratory**

Design of dedicated digital systems and general purpose RISC microprocessors using HDL tools and design platforms. Instruction sets and assembly language. Datapath and Control Unit design. Performance analysis. Memory organization. Corequisite(s): CpE 300. Prerequisite(s): CpE 200L and EE 320L. 1 credit(s)

**CpE 301 - Embedded System Design**

Study of the microcontrollers and its application to a broad range of engineering problems. Study of architecture, instruction set, interfaces, etc. Study of Assembly and C programming for microcontrollers. Use of simulation and emulation. Study of microcontroller interface with sensors, actuators, motors, peripheral devices and communication. Prerequisite(s): CpE 300 and CS 218. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 301L - Embedded System Design Laboratory for CpE**

Hands-on study of microprocessor and microcontroller application to a broad range of engineering problems. Usage of simulation and emulation tools. Assembly and C microcontroller programming. Hardware interface design and programming. Advanced projects on sensors, actuators, communication protocol, etc. Corequisite(s): CpE 301. Prerequisite(s): CpE 200 and CS 218. All prerequisites must be completed with a grade of C or better. 1 credit(s)

**CpE 302 - Digital System Design**

Formerly Listed as CPE 410

Modern methodologies in the design, simulation, synthesis and testing of digital and computer systems using hardware description languages and other computer tools. Design implementations using Field Programmable Gate Arrays (FPGAs). Prerequisite(s): CpE 200 or CS 302. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 310L - Embedded Systems Design Laboratory for EE**

Hands-on study of microcontroller application to a broad range of engineering problems. Usage of simulation and emulation tools. Assembly and C microcontroller programming. Hardware interface design and programming. Prerequisite(s): EE 221L or (EE 292 and CpE 200L). All prerequisites must be completed with a grade of C or better. 1 credit(s)

**CpE 400 - Computer Communications Networks**

Computer network architecture; the OSI Model; network protocols; local area networks; fiber optics communication; ISDN; elements of Queueing Theory, with emphasis on hardware design issues. Prerequisite(s): CpE 300, CS 370 and MATH 431 or CpE 260. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 403 - Embedded Systems**

Design of hardware and software for embedded systems. Study of advanced 32-bit microcontrollers. Hands-on approach in learning assembly language, high-level language programming, debugging, simulators and emulators. Design of efficient embedded systems. RTOS for embedded systems and RTES Design. Project-based, requiring design/construction of an embedded system. Prerequisite(s): CpE 301 with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 404 - Modern Processor Architecture**

Instruction level parallel processing. Processor performance evaluation and optimization. Scalar and superscalar pipelines. Instruction, register data and memory data flow techniques. Cache organization and performance analysis. Comparison of RISC, CISC and VLIW architecture. Survey of modern processors. Introduction to multithreading. Prerequisite(s): CpE 300 with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 405 - Data Compression Systems**

Source modeling. Foundations of lossy and lossless compression, code properties, Huffman and arithmetic coding, predictive coding, dictionary techniques, compression techniques and standards for facsimile, audio, video and still image coding, Hardware design specifics, coding and watermarking. Prerequisite(s): EE 220 and MATH 431 or CpE 260. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 407 - Biometrics**

Taxonomies of devices and applications, probability and statistical testing methods, one and two dimensional transform techniques, finger printing, voice recognition, facial recognition, and iris scanning, large scale identification applications, multibiometrics, social, legal, and ethical concerns. Prerequisite(s): MATH 431 or CpE 260 with a grade of C or better. Advanced Standing required. 3 credit(s)

**CpE 408 - Digital Design Verification and Testing**

A study of complete digital design testing during all design flow stages - from writing code to testing chips after manufacturing, creating and implementing effective test scenarios and assertion techniques, designing self-testing devices. Students will get hands-on experience with various EDA tools for design testing, verification, logic and fault simulation. Prerequisite(s): CpE 300 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 220 - Circuits I**

Introduction to linear circuit analysis. Kirchhoff's laws, operational amplifiers, node and loop analysis. Thevenin, Norton, and other network theorems, first order RL and RC circuits, second order RLC circuits. Corequisite(s): EE 220D. Prerequisite(s): MATH 182 with a grade of C or better. 3 credit(s)

**EE 220D - Circuits I Discussion**

Introduction to PSpice - simulation tool for electrical circuits, problem solving using SPICE. Corequisite(s): EE 220. 0 credit(s)

**EE 221 - Circuits II**

Sinusoidal steady state analysis using phasors, sinusoidal steady state power, the Laplace transform and its application to circuit analysis, network functions, frequency response, magnetically coupled circuits and transformers.. Prerequisite(s): EE 220 and either CS 117 or CS 135. All prerequisites must be completed with a grade of C or better. 3 credit(s)

**EE 221L - Circuits II Laboratory**

Basic measurements and instrumentation. Principles of experimentation. Corequisite(s): EE 221. 1 credit(s)

**EE 292 - Fundamentals of Electrical & Computer Engineering**

Introduction to electrical circuit analysis, electronic devices and circuits, transducers, electric machines and power transmission. Prerequisite(s): MATH 182 and either PHYS 180 or PHYS 151; All prerequisites must be completed with a grade of C or better. Note(s): For non-electrical engineering majors only. 3 credit(s)

**EE 320 - Engineering Electronics I**

Introduction to electronic devices, electronic circuits and electronic signal processing. Design and analysis of diode circuits including rectifiers and power supplies. Design and analysis of single stage amplifiers and digital circuits. Prerequisite(s): CHEM 121A, CHEM 121L, EE 221, PHYS 181, PHYS 181L and either MATH 431 or CpE 260 ; All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 320L - Engineering Electronics I Laboratory**

Laboratory-based analysis and design of electrical and electronic systems. Corequisite(s): EE 320. Prerequisite(s): EE 221L with a grade of C or better.. 1 credit(s)

**EE 330 - Engineering Electromagnetics I**

Static electric and magnetic fields. Dielectric and ferromagnetic materials. Laplace's equation. Time-varying electric and magnetic fields. Maxwell's equations. Engineering applications. Corequisite(s): MATH 432 and EE 330D. Prerequisite(s): PHYS 181, MATH 431 and EE 221. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 340 - Introduction to Electrical Power Engineering**

Electric energy sources and energy conversion principles, modeling and analysis of synchronous generators, transmission lines, transformers, AC and DC machines. Brief introduction to power system analysis including power flow, fault calculation and economic dispatch. Corequisite(s): EE 330. Prerequisite(s): EE 221 with a grade of C or better. 3 credit(s)

**EE 340L - Electric Power Engineering Laboratory**

Measurement of different electric powers, measurement of equivalent circuit parameters and characteristics of electric generators, transformers, transmission lines, AC and DC motors, use of software packages for fault calculation and load flow. Corequisite(s): EE 340. Prerequisite(s): EE 320L. 1 credit(s)

**EE 360 - Signals and Systems I**

Deterministic signals and linear systems. Time domain description and analysis of analog and discrete linear systems. Analysis of linear systems using the Laplace transform and the z-transform. Block diagram and flow graph representation of signals and linear systems. Introduction to state space representation and analysis. Corequisite(s): EE 360D and either MATH 459 or MATH 432. Prerequisite(s): MATH 431 and EE 221 or EE 292. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 360D - Signals and Systems I - Discussion**

Introduction to MATLAB- simulation tool for signals and systems, solving problems using MATLAB. Corequisite(s): EE 360. 0 credit(s)

**EE 361 - Signals and Systems II**

Stochastic and deterministic signals and linear systems. Analog and discrete Fourier Series, analog and discrete Fourier transforms, basic probability theory, stochastic processes, stochastic signals and linear systems. Prerequisite(s): EE 360 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 370 - Classical Feedback and Control Systems**

Introduction to control systems. Feedback control characteristics, performance, stability. Analysis, synthesis and design of feedback control systems. Prerequisite(s): EE 360 and either MATH 459 or MATH 432. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 370L - Feedback and Control Systems Laboratory**

Laboratory projects and exercises in feedback control. Corequisite(s): EE 370. 1 credit(s)

**EE 420 - Engineering Electronics II**

Analysis, synthesis, and design techniques of modern electronic analog and digital circuits. Prerequisite(s): EE 320 and MATH 431. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 420L - Engineering Electronics II Laboratory**

Applications and study of modern electronic analog and digital circuits. Advanced instrumentation. Corequisite(s): EE 420. 1 credit(s)

**EE 421 - Digital Electronics**

Digital circuit analysis. Discrete and integrated circuit technology, logic families, A/D-D/A circuits, comparators, Schmitt triggers. Prerequisite(s): CpE 100 and EE 320. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 421L - Digital Electronics Laboratory**

Laboratory-based analysis and design of digital and computer electronic systems. Corequisite(s): EE 421. 1 credit(s)

**EE 430 - Transmission Lines**

Telegraphist's equations; transient response—steady state response; reflection diagrams; Smith chart; matching techniques and designs; narrow and broadband impedance matching techniques; scattering matrix; introduction to stripline and microstrip devices. Prerequisite(s): EE 330 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 431 - Engineering Optics**

Engineering applications of optics. Includes aperture and grating antennas, holography, optical image processing, optical waveguides, and tomography. Prerequisite(s): EE 330 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 432 - Antenna Engineering**

Fundamentals of antennas and antenna design; linear wire, loop, and antenna arrays; antenna measurements. Prerequisite(s): EE 330 and either MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 436 - Active and Passive Microwave Engineering**

Waveguides, dispersion diagrams, microwave network analysis, broadband impedance matching, open and closed resonators, power dividers, directional couplers, filters, circulators, phase shifters, solid state amplifier, and oscillator design. Prerequisite(s): EE 330 and MATH 432 or MATH 459. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 442 - Power Electronics**

Topics include: diode circuits and rectifiers, power semiconductor diodes and transistors, thyristors and static switches, controlled rectifiers, AC voltage controllers, DC choppers, inverters, AC and DC drives, power supplies and protection of devices and circuits. Prerequisite(s): EE 320 and EE 340. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 446 - Photovoltaic Devices and Systems**

Solar resource characteristics, solar cell physics and technologies, cell electrical characteristics, PV module design, DC-AC inverters, battery energy storage and charge controllers, design of stand-alone and grid-connected PV Systems, economic considerations. Prerequisite(s): MATH 182 or consent of instructor. All prerequisites must be completed with a grade of C or better. 3 credit(s)

**EE 450 - Solid State Devices**

Semiconductor physics, pn diode, bipolar junction transistor, metal semiconductor FET devices, metal oxide semiconductor FET devices. Prerequisite(s): EE 320, MATH 431. All prerequisites must be completed with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 450L - Solid State Characterization Laboratory**

Capacitance and voltage, Hall mobility and carrier concentration, oxidation and etching silicon dioxide processing of silicon. Prerequisite(s): EE 450 with a grade of C or better. 1 credit(s)

**EE 451 - Electronic and Magnetic Materials and Devices**

Semiconductors, dielectrics, ferroelectrics, antiferromagnetics, derromagnetics, ferrimagnetics, crystal structure, structure-property relations, device applications. Prerequisite(s): EE 330 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 452 - Introduction to Optical Electronics**

Topics include: modulation of light, display devices, lasers, photodetectors, fiber optics, engineering applications, and systems. Prerequisite(s): EE 330 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 453 - Introduction to Nanotechnology**

Overview of Nanotechnology, Physics of the Solid State, Properties of Individual Nanostructures, Bulk Nanostructured materials, magnetic nanoparticles, Quantum Wells, Wires and Dots, Self-Assembly and Catalysis, nanoscale Biological materials. Prerequisite(s): EE 320 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 460 - Analog and Digital Communications**

Review of Fourier theory, linear system theory, probability and random processes. Modulation and detection. Noise in modulation systems. Introduction to digital data transmission. Prerequisite(s): EE 361 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 460L - Communication Systems Lab**

Laboratory experiments related to the communication system theory taught in EE 460. The lab includes experiments related to spectrum analysis, AM and FM modulations and demodulations, analog to digital conversion, PCM coding, and baseband and carrier digital modulations. Corequisite(s): EE 460 1 credit(s)

**EE 462 - Advanced Digital Communications**

Information theory and fundamental limits on performance, digital coding of waveforms, pulse shaping for baseband transmission, digital bandpass modulations, channel coding. Prerequisite(s): EE 460 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 466 - Wireless and Mobile Communication Systems**

The study of wireless systems including cellular telephone systems, wireless local area networks and other wireless data services. Topics include digital modulation techniques, frequency reuse, diversity techniques, multiple access schemes and channel modeling including path loss, shadowing, fading and multipath interference. Prerequisite(s): EE 460 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 472 - Digital Control Systems**

Introduction to discrete time of control. State space representation of linear systems; stability; the concepts of controllability and observability. Sample data control system design techniques, including pole placement, observer design. Prerequisite(s): EE 370 or ME 421 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 475 - Autonomous Systems and Control**

Autonomous multivariable systems, state space analysis, controllability, observability and stability, design of control systems, aircraft longitudinal and lateral dynamics, modal approximations, lateral and longitudinal autopilots, VTOL UAVs dynamics and control. Prerequisite(s): EE 370 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 480 - Digital Signal Processing**

Review of discrete linear system theory including the z-transform, the Fourier transform, discrete and fast Fourier transform. Sampling, reconstruction and multirate systems, IIR and FIR digital filter design including digital filter structures and finite word length effects. Prerequisite(s): EE 361 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 480L - Digital Signal Processing Laboratory**

Laboratory projects and exercises in digital signal processing including the design and implementation of FIR, IIR, and multirate systems. Corequisite(s): EE 480. 1 credit(s)

**EE 482 - Introduction to Biomedical Signals and Systems**

Introduction to biomedical signals, transduction devices, bioelectric potentials and sensors. Application of electrical signal and system principles to biosignals, such as cardiovascular electrical signals, neural electrical communication, and diagnostic ultrasound. Includes current biomedical engineering topics. Prerequisite(s): EE 361 with a grade of C or better. Advanced Standing required. 3 credit(s)

**EE 490 - Senior Design Project**

Formerly Listed as ECG 490. 3 credit(s)

**EE 493 - Independent Study**

Independent study of a selected engineering topic. Prerequisite(s): Senior standing in Electrical Engineering. May be repeated once for credit. 1-3 credit(s)

**EE 495 - Special Topics**

Covers experimental and other topics which may be of current interest. Prerequisite(s): Upper-division standing in Engineering. May be repeated once under a different topic. May be repeated to a maximum of six credits. Note(s): Topics and credits to be announced. May have a laboratory. 1-4 credit(s)

**EE 497 - Senior Design Project I**

Capstone synthesis course to teach students the design process from problem definition, team building, to project planning, paper design, written and oral communications. Corequisite(s): EE 494. Prerequisite(s): EE 320L Senior standing and advanced standing and department 1 credit(s)

**EE 498 - Senior Design Project II**

Capstone synthesis course to teach students hardware and software implementation of their projects proposed and paper-designed in EE 497, testing and recommendations, project presentation. Prerequisite(s): EE 497 with a grade of C or better, and final semester senior. 2 credit(s)

# Mechanical Engineering Department

Mechanical engineering is a diverse and flexible engineering discipline. Mechanical engineers work in number of fields including design of machinery, controls, vibrations and acoustics, power generation, renewable energy, energy conservation, fluid flow and heat transfer applications, and air-conditioning. The program synthesizes math, science, engineering science, and engineering design. The program provides electives in several general areas, including thermal-sciences, mechanical design and manufacturing, robotics and automation, mechanical and environmental systems, nuclear engineering, aerospace engineering, and bioengineering. Students begin the practice of design in their freshman year and integrate it throughout their programs which culminate in a team-oriented capstone design project in the senior year. The program is geared to prepare students for the lifelong practice of mechanical engineering and for immediate entry to positions in industry or further studies in graduate schools. The department also offers the Integrated B.S.-M.S. program for qualified undergraduate students.

## **Mission**

It is the mission of the Department of Mechanical Engineering to prepare students for the lifelong practice of mechanical engineering and related engineering disciplines. This includes preparation for immediate entry into positions in industry or for further study in graduate school.

In addition, the department sustains an outstanding academic program, motivating the faculty to attain excellence in research by acquiring external funding and by incorporating students into their research programs.

## **Accredited by the:**

Northwest Commission on Colleges and Universities, 8060, 165th Avenue NE, Suite 100, Redmond, WA 98052 - telephone: (425) 558-4224

Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700

## **Undergraduate Major**

Bachelor of Sciences in Engineering — Mechanical Engineering

## **Program Goals**

The goals of Bachelor of Sciences in the Engineering — Mechanical Engineering program are to:

- Prepare graduates for the lifelong learning of mechanical engineering.
- Provide graduates with solid academic preparation for professional positions and/or graduate study.

## **Program Objectives**

The Bachelor of Sciences in Engineering — Mechanical Engineering program has several objectives:

1. Our graduates will apply acquired technical capabilities when solving engineering problems or in their graduate studies in mechanical engineering or other fields.

2. Our graduates will use acquired professional skills to work effectively with colleagues and others in the work-place.
3. Our graduates will demonstrate a sense of responsibility as a professional member of society.

## **Program Outcomes**

1. Our graduates will apply acquired technical capabilities when solving engineering problems or in their graduate studies in mechanical engineering or other fields. The objective outcomes are:
  - a. Fundamental knowledge of state-of-the-art and evolving areas associated with the mechanical engineering field.
  - b. Ability to design and conduct experiments, analyze data, and utilize statistical methods.
  - c. Ability to solve open-ended design problems.
  - d. Ability to use modern computational techniques to solve engineering problems.
  - e. Ability to mathematically model and analyze engineering systems.
2. Our graduates will use acquired professional skills to work effectively with colleagues and others in the work-place. The objective outcomes are:
  - a. Oral and written presentation of technical information.
  - b. Introductory knowledge of economics.
  - c. Working on a multi-disciplinary team with peers.
  - d. Motivation to pursue lifelong learning.
3. Our graduates will demonstrate a sense of responsibility as a professional member of society. The objective outcomes are:
  - a. Commitment to professional and ethical behavior in the workplace.
  - b. Awareness of world affairs and cultures.
  - c. Recognition of the impact of engineering on local and global societies.
  - d. Seeking professional licensure.

## **Admission to the Major**

Minimum: GPA 2.50

Admission and transfer policies are described in the College of Engineering section.

## **Department Policies**

1. Grade of C (2.00) or higher must be earned in each engineering course (ME, CEE, EE, EGG) for graduation.
2. Grades of C (2.00) or higher are required in all immediate prerequisites of all science, engineering, construction management, and computer science courses and in ENG 101 and 102.
3. An overall 2.3 GPA and 2.5 GPA in engineering courses is required for probation, transfer, and graduation.
4. Students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
5. Students must be admitted to advanced standing prior to registering for upper-division courses in the College of Engineering.
6. All mechanical engineering students must take the Fundamentals of Engineering Discipline Specific Mechanical Engineering Examination as a graduation requirement. Students who fail to pass the exam are required to take the Fundamentals of Engineering Discipline Specific Mechanical Engineering Examination a second time.



## Mechanical Engineering Major - Bachelor of Science in Engineering (BSE)

Please see the UNLV Mechanical Engineering department web page at <http://www.unlv.edu/mel> for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Engineering Advising Center at <http://engineering.unlv.edu/advising/>

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Engineering Accreditation Commission of ABET <http://www.abet.org>

### Learning Outcomes

1. Our graduates will apply acquired technical capabilities when solving engineering problems or in their graduate studies in mechanical engineering or other fields. The objective outcomes are:
  - Fundamental knowledge of state-of-the-art and evolving areas associated with the mechanical engineering field.
  - Ability to design and conduct experiments, analyze data, and utilize statistical methods.
  - Ability to solve open-ended design problems.
  - Ability to use modern computational techniques to solve engineering problems.
  - Ability to mathematically model and analyze engineering systems.
2. Our graduates will use acquired professional skills to work effectively with colleagues and others in the work-place. The objective outcomes are:
  - Oral and written presentation of technical information.
  - Introductory knowledge of economics.
  - Working on a multi-disciplinary team with peers.
  - Motivation to pursue lifelong learning.
3. Our graduates will demonstrate a sense of responsibility as a professional member of society. The objective outcomes are:
  - Commitment to professional and ethical behavior in the workplace.
  - Awareness of world affairs and cultures.
  - Recognition of the impact of engineering on local and global societies.
  - Seeking professional licensure.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Mechanical Engineering

Degree Requirements.....Total: 122-128 Credits

General Education Requirements..... Subtotal: 30-36 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
(see note 1 below)

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: (Fulfilled by Major Requirements)

Distribution Requirements ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - PHIL 242 - Ethics For Engineers and Scientists (can satisfy Second-Year Seminar for Engineering Students)
  - One elective courses from a different area (see Multicultural and International Requirements)
  - One course in Fine Arts - 3 credits
- Social Science: 9 credits
  - ECON 102 - Principles of Microeconomics
  - EGG 307 - Engineering Economics
  - One elective course to fulfill the Distribution Requirement (see Multicultural and International Requirements)
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Mechanical Engineering Major.....Subtotal: 92 Credits

Mechanical Engineering Pre-Major Courses..... Credits: 27

Students in the Pre-major for Mechanical Engineering have to complete the First-Year Seminar and the English Composition Requirements as well as the classes below before being eligible for Advance Standing status.

Mathematics..... Credits: 8

- MATH 181 - Calculus I - fulfills the General Education Mathematics Requirement.

- MATH 182 - Calculus II

Sciences ..... Credits: 12

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Engineering ..... Credits: 6

- CEE 241 - Statics
- ME 242 - Dynamics

Drafting Requirement ..... Credit: 1

Choose one course from:

- ME 220 - 3D Modeling with Pro Engineer
- ME 240 - 3D Modeling with Solidworks

Pre-Major or Advanced Standing Courses..... Credits: 19

Students in the Pre-major or Advanced Standing status for Mechanical Engineering are advised to complete Second-Year Seminar, Constitution and Distribution Requirements along with the following courses:

Mathematics..... Credits: 7

- MATH 283 - Calculus III
- MATH 431 - Mathematics for Engineers and Scientists I

Engineering ..... Credits: 12

- EE 292 - Fundamentals of Electrical & Computer Engineering

- ME 301 - Structure and Properties of Solids
  - ME 302 - Materials Mechanics
  - ME 302L - Mechanical Testing Lab
  - ME 319 - Introduction to Programming for Mechanical Engineers
- Mechanical Engineering Advanced Standing Courses.... Credits: 46
- Mathematics..... Credits: 6

- ME 402 - Computational Methods for Engineers

and one of

- MATH 432 - Mathematics for Engineers and Scientists II
- MATH 488 - Partial Differential Equations
- STAT 463 - Applied Statistics for Engineers

or any four-hundred level courses in math (except MATH 466 and MATH 467 ) after the approval of the student's academic advisor.

Engineering ..... Credits: 34

- ME 311 - Engineering Thermodynamics I
- ME 314 - Introduction to Heat Transfer
- ME 315 - Thermal Engineering Laboratory
- ME 320 - Dynamics of Machines
- ME 330 - Analysis of Dynamic Systems
- ME 337 - Engineering Measurements
- ME 337L - Engineering Measurements Laboratory
- ME 380 - Fluid Dynamics for Mechanical Engineers
- ME 380L - Fluid Dynamics Laboratory
- ME 421 - Automatic Controls
- ME 421L - Automatic Controls Laboratory
- ME 440 - Mechanical Engineering Design
- ME 453 - Mechanical Vibrations
- ME 492 - FE Exam Review Sessions for Mechanical Engineers
- ME 497 - Senior Design Project I
- ME 498 - Senior Design Project II

Technical Electives ..... Credits: 6

Students must select and complete six credits for upper level mechanical engineering courses. At least 1.5 design credits must also be completed.

Total Credits: ..... 122-128

## Notes

1. Every student must complete a three-credit Second-Year Seminar course. PHIL 242 may satisfy the three-credit Second-Year Seminar course requirement as well as three credits of the Humanities requirement for College of Engineering students only whose degree requires 120+ credits.

## Mechanical Engineering

### ME 100 - Introduction to Mechanical and Aerospace Engineering

Introduction to mechanical and aerospace engineering profession. Engineering problems and calculations and creativity in the design process. Ethics and professionalism in engineering design. Laboratory and machine shop demonstrations. Prerequisite(s): ME major. 2 credit(s)

### ME 100L - Introduction to Mechanical and Aerospace Engineering Laboratory

Introduction to techniques and their practice used in the design process: sketching, dimensioning, brainstorming, decision trees, decision matrices, P.C. software packages, experimentation. Corequisite(s): ME 100. Prerequisite(s): Pre-Engineering major. 1 credit(s)

### ME 110 - Private Pilot Ground School

Preparation for the FAA's Private Pilot Knowledge Exam. Airframes and powerplants; aircraft systems and instrumentation; aerodynamics; aircraft performance; weight and balance; flight physiology; the national airspace system; aeronautical charts; pilotage, dead reckoning and radio navigation; aviation weather; and Federal Aviation Regulations. 4 credit(s)

### ME 120 - Introduction to AUTOCAD

Introduction to two-dimensional renderings with AUTOCAD. Basic customization features such as menu modification and the addition of command aliases. 1 credit(s)

### ME 130 - Machine Shop Practices

Introduction to basic machining processes. Safety practices. Cutting theory. Use of lathe, milling machines, and other devices. 1 credit(s)

### ME 220 - 3D Modeling with Pro Engineer

Parametric, feature-based solid modeling with ProEngineer software package. 1 credit(s)

### ME 230 - Principles of CNC

Includes the programming, setup, and use of Computer Numerically Controlled (CNC) machines. Students will learn the G-code programming language in addition to descriptions of the tools, equipment, and procedures special to this type of machines. Prerequisite(s): ME 130 with a grade of C or better. 1 credit(s)

### ME 240 - 3D Modeling with Solidworks

Parametric, feature-based solid modeling with Solidworks software package. 1 credit(s)

### ME 242 - Dynamics

Problem course in engineering dynamics, emphasizing the engineering applications of rigid body motion and mechanisms. Kinematics, energy, momentum, and impulse momentum methods utilized. Prerequisite(s): CEE 241 , PHYS 180 - 180L , and MATH 182 or higher. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

### ME 301 - Structure and Properties of Solids

Electronic structure and bonding in solids, crystalline and noncrystalline solids, defects and their relation to properties, phase transformations, diffusion in solids, and corrosion. Prerequisite(s): CHEM 121A and CHEM 121L with a grade of C or better. 3 credit(s)

### ME 302 - Materials Mechanics

Study of the response of isotropic elastic solids to load, stress and strain of a point, elasticity, thin walled pressure vessels, torsion, bending, deflection of beams, column failure, and connections. Prerequisite(s): CEE 241, MATH 182, and PHYS 180-PHYS 180L. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

### ME 302L - Mechanical Testing Lab

Strain gage attachment and calibration, tensile testing of metals and non-metals, elastic constants, beam deflection and failure, torsion testing, column stability, and bolted connection testing. Corequisite(s): ME 302. 1 credit(s)

### ME 311 - Engineering Thermodynamics I

Engineering applications of thermodynamics including the first and second laws, behavior of condensable and non-condensable substances, analysis of open and closed systems, equations of state, power and refrigeration cycles. Prerequisite(s): PHYS 181 , 181L or PHYS 182 ,182L and Engineering major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

### ME 314 - Introduction to Heat Transfer

Engineering applications of heat transfer. Conduction, convection, and radiation. Introduction to heat exchangers. Prerequisite(s): MATH 431 ME 311, Engineering major and either PHYS 181 , 181L or PHYS 182 ,182L. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 315 - Thermal Engineering Laboratory**

Laboratory studies related to heat transfer, thermodynamics, energy conversion, and HVAC applications. Prerequisite(s): ME 311 and ME 314 and ME 380 and Engineering major. All prerequisite courses must be completed with a grade of C or better. 1 credit(s)

**ME 319 - Introduction to Programming for Mechanical Engineers**

Introduction to computer languages and computer hardware, MATLAB programming environment, MATLAB data types, MATLAB graphics, Functions, Inputs / Outputs, text processing function library, Plotting functions, Reading and writing data files, and Case Studies using different MATLAB Toolboxes. Prerequisite(s): MATH 182. All prerequisite courses must be completed with a grade of C or better.. 2 credit(s)

**ME 320 - Dynamics of Machines**

Algebraic and graphical methods for synthesis of cam, gear, and linkage mechanisms; methods of planar motion analysis; characteristics of plane motion, and kinematics. Prerequisite(s): MATH 283, ME 242, ME 319 and Engineering Major. All prerequisite courses must be completed with a grade of C or better.. 3 credit(s)

**ME 330 - Analysis of Dynamic Systems**

Mathematical modeling and analysis of dynamic systems with mechanical, electrical, and fluid elements. Topics include: time and frequency domain solution, state space modeling and solutions, linearization techniques, numerical solution using Matlab. Prerequisite(s): ME 242, MATH 431, ME 319 and Engineering Major. All prerequisite courses must be completed with a grade of C or better.. 2 credit(s)

**ME 337 - Engineering Measurements**

Generalized measurements systems, characteristics of dynamic signals, basic transducer, signal conditioning and recording systems, applied mechanical measurements, and statistical analysis. Prerequisite(s): EE 292, PHYS 182, PHYS 182L and Engineering Major. All prerequisite courses must be completed with a grade of C or better.

**ME 337L - Engineering Measurements Laboratory**

Laboratory instruction includes basic hardware setup of computer based data acquisition and control system and software programming skill using LabVIEW. Measurement process planning including selection of correct transducers and signal conditioning units commonly encountered in mechanical engineering. Corequisite(s): ME 337. 1 credit(s)

**ME 345 - Safety Engineering I**

Engineering approach to safety and health problems and solutions in industries. Includes OSHA and MSHA regulations, safety problems, and equipment and design considerations for safe operations. Retrofit and original designs related to their cost-benefit and to human production factors. Prerequisite(s): CHEM 121A and CHEM 121L and junior standing for majors in the Colleges of Science and Engineering (senior standing for other majors). 3 credit(s)

**ME 380 - Fluid Dynamics for Mechanical Engineers**

Introduction to fluid properties, statics, and fluid dynamics. Development of the Navier-Stokes equations for the study of flow in closed conduits, external flows, boundary layers, compressible flows, potential flows, and turbomachinery. Prerequisite(s): ME 242, ME 302, ME 302L, ME 311, MATH 283, PHYS 182, PHYS 182L and Engineering major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 380L - Fluid Dynamics Laboratory**

Laboratory and computer-based experiments on the dynamics of fluids including pressure in pipes, fluid properties, compressible flows, inviscid flow simulations, boundary layer measurements, usage of wind tunnels, and applications of computational fluid dynamics. Corequisite(s): ME 380. 1 credit(s)

**ME 400 - Intermediate Fluid Mechanics**

Basic laws and equations of fluid flow; very viscous flow solutions; boundary layer flows; potential flows; wave phenomena; transport phenomena; turbulence. Prerequisite(s): Prerequisites ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 600. Credit at the 600-level requires additional work. 3 credit(s)

**ME 402 - Computational Methods for Engineers**

Applied numerical analysis for linear and nonlinear engineering problems. Systems of linear equations, nonlinear equations, and eigen value problems. Approximate numerical integration and differentiation. Development of numerical methods for initial and boundary value problems of ordinary differential equations. Introduction to the numerical solution of partial differential equations. Prerequisite(s): MATH 431, ME 319 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 602. Credit at the 600-level requires additional work. 3 credit(s)

**ME 409 - Turbomachinery**

Types of turbomachines, applications of turbomachines, and performance characteristics. Energy transfer in turbomachines. Fundamentals of turbomachinery. Applications of the principles of fluid mechanics, thermodynamics and aerodynamics to the design and analysis of pumps, fans, blowers, compressors, gas turbines, steam turbines, hydraulic turbines, and wind turbines are incorporated. Prerequisite(s): ME 311 and ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 609. Credit at the 600-level requires additional work. 3 credit(s)

**ME 412 - Sizing Solar Energy Systems**

Covers the sizing of solar thermal and photovoltaic systems using various types of software. Design criteria are also covered. Required course of the technical branch of the renewable energy minor. Prerequisite(s): Junior division standing in an Engineering or Science Discipline. 3 credit(s)

**ME 415 - Design of Thermal Systems**

Design of thermal systems and subsystems, especially as they relate to current and new means of energy utilization and power generation; computer simulation and optimization of thermal systems based on performance and economic constraints. Prerequisite(s): Prerequisites EGG 307, ME 311, ME 314, ME 380, or consent of instructor and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 615. Credit at the 600-level requires additional work. 3 credit(s)

**ME 416 - Introduction to Biomechanical Engineering**

Fundamental engineering principles in several engineering areas to problems in the biological world. Discussion includes biomechanics of solids, biofluid and transport phenomena, biomaterials, cell and tissue engineering, medical imaging and electrophoresis. Prerequisite(s): ME 314, ME 380 and BIOL 223 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 616. Credit at the 600-level requires additional work. 3 credit(s)

**ME 417 - Fuel Cell Fundamentals**

Fuel Cell Principles, Fuel Cell Thermodynamics, Fuel Cell Reaction Kinetics, Fuel Cell Charge Transport, Fuel Cell Mass Transport, Fuel Cell Modeling, Fuel Cell Characterization, Fuel Cell Technology, Fuel Cell Types and Systems. Prerequisite(s): ME 311, ME 314, ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 418 - Air Conditioning Engineering Systems**

Analysis and design of air conditioning systems, load calculations, system selection, duct sizing, and controls. Relationships between internal and external environments. Development of economic, functional and energy conserving concepts in air conditioning design. Prerequisite(s): ME 311, ME 314 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 618. Credit at the 600-level requires additional work. 3 credit(s)



**ME 419 - Advanced HVAC and Energy Conservation Systems**

Room air distribution. Fan and building air distribution. Mass transfer and humidity measurement. Direct contact heat and mass transfer extended surface heat exchangers. Refrigeration. Current energy conservation technologies, computer simulations of dynamic building energy demand. Prerequisite(s): ME 311, ME 314 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 619 Credit at the 600-level requires additional work. 3 credit(s)

**ME 421 - Automatic Controls**

Introduction to feedback system concepts; mathematical modeling of mechanical, hydraulic, electromechanical and servo systems; feedback system characteristics and performance; stability; design and compensation of control systems. Corequisite(s): ME 421L. Prerequisite(s): ME 330 or EE 360 and EE 292 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 421L - Automatic Controls Laboratory**

Control system identification. Controller design, experimentation, computer simulation, and analysis of position and speed control systems. Control system performance optimization. Corequisite(s): ME 421. 1 credit(s)

**ME 425 - Robotics**

Instruction to basic concept and theory behind motions generated by robot manipulators; kinematics, dynamics, and trajectory generation. Design of basic feedback position controllers and computer simulation techniques of robot dynamics and control system. Corequisite(s): ME 421. Prerequisite(s): ME 242, MATH 431 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): This course is crosslisted with ME 625. Credit at the 600-level requires additional work. 3 credit(s)

**ME 426 - Manufacturing Processes**

Survey of the principal processes used to cast, form, machine, and join material. Tolerances, statistical quality control, costs, operation sequencing, and design for productivity covered. Research paper on related topic required. Prerequisite(s): Senior standing in engineering or architecture. Note(s): This course is crosslisted with ME 626. Credit at the 600-level requires additional work. 3 credit(s)

**ME 427 - Manufacturing Systems**

Study of the ways of organizing people and equipment so that production can be performed more efficiently. Includes production lines design, CIM, GT, FMS, production planning, inventory control and MRP lean production, JIT, and agile manufacturing. Prerequisite(s): ME 301 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 627. Credit at the 600-level requires additional work. 3 credit(s)

**ME 429 - Computer Control of Machines and Processes**

Discrete control theory reduced to engineering practice through comprehensive study of discrete system modeling, system identification and digital controller design. Selected industrial processes and machines utilized as subjects on which computer control is to be implemented. Focuses on the time-domain analysis of the control theory and programming. Prerequisite(s): ME 421 or EE 370 or equivalent and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 629. Credit at the 600-level requires additional work. 3 credit(s)

**ME 430 - Corrosion Engineering**

Examination of the fundamental processes of metallic corrosion from the thermodynamic and kinetic points of view. Specific types of corrosion and prevention strategies discussed. Materials selection, design features, and fabrication techniques of corrosion control covered. Prerequisite(s): CHEM 121A, CHEM 121L, ME 301 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 630. Credit at the 600-level requires additional work. 3 credit(s)

**ME 434 - Noise Control**

Development and solution of one-dimensional wave equation for propagation of sound in air; one-dimensional plane and spherical sound waves; sound transmission phenomena; sound in enclosed spaces; sound propagation outdoors; and human responses to noise. Prerequisite(s): MATH 431 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 634. Credit at the 600-level requires additional work. 3 credit(s)

**ME 440 - Mechanical Engineering Design**

Stress analysis; deflection of machine elements; design of machine elements for static and fatigue strength. Prerequisite(s): ME 301 and ME 302 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 441 - Advanced Mechanical Engineering Design**

Continuation of ME 440; use of advanced concepts in machine design. Prerequisite(s): ME 440 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 641. Credit at the 600-level requires additional work. 3 credit(s)

**ME 442 - Advanced Mechanism Design**

Cam design, synthesis of mechanisms, spatial mechanisms. Prerequisite(s): ME 320 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s) This course is crosslisted with ME 642. Credit at the 600-level requires additional work. 3 credit(s)

**ME 443 - Design Techniques in Mechanical Engineering**

Computational techniques for use in mechanical engineering design. Emphasis on the use of existing commercial codes for the analysis and design of machine elements and for the study of heat transfer and fluid flow. Corequisite(s): ME 314. Prerequisite(s): ME 302 and ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 643. Credit at the 600-level requires additional work. 3 credit(s)

**ME 446 - Composite Materials**

Overview of matrix and fiber systems, processing techniques, anisotropic elasticity, unidirectional lamina, multidirectional laminate theory, failure theories, and design of composite structures. Prerequisite(s): ME 302, MATH 431 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 646. Credit at the 600-level requires additional work. 3 credit(s)

**ME 453 - Mechanical Vibrations**

Free and forced response of single-and-multi-degree-of-freedom, lumped parameter systems. Fourier series and Fourier and Laplace transforms. Introduction to vibration of continuous systems and applications. Prerequisite(s): ME 242, ME 330 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 653. Credit at the 600-level requires additional work. 3 credit(s)

**ME 454 - Physical Metallurgy**

Physical metallurgy of the common engineering alloys, including carbon, low alloy and stainless steel, cast irons, copper-, nickel- and aluminum based alloys. Relationship between composition, structure, properties, and thermal-mechanical history emphasized. Prerequisite(s): ME 301 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. 3 credit(s)

**ME 455 - Fundamentals of Nuclear Engineering**

Fundamentals of nuclear reactor design and analysis of the fission process. Basic health physics, reactor shielding, and nuclear waste management. Calculation of reactor dimensions for criticality. Reactor kinetics and control. Prerequisite(s): MATH 431, PHYS 182 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 655. Credit at the 600-level requires additional work. 3 credit(s)



**ME 460 - High School Mentoring for Engineering Design**

Students help high school teams design robots for the FIRST robotics competition. Weekly meetings discuss: mentoring, design, robotics, organizational skills, and teamwork. Must arrange transport to assigned local high school. Class begins with the international FIRST Kick-off meeting usually scheduled for the first Saturday after New Year's Day. Prerequisite(s): Junior standing and consent of instructor. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with ME 660. Credit at the 600-level requires additional work. 3 credit(s)

**ME 462 - Vehicle Design Projects**

Students design and build a vehicle for entry into a national or regional collegiate competition such as Mini-Baja or Human Powered Vehicle. Design topics may include structural analysis, composite materials, aerodynamics, engine performance, occupant safety, drive train, suspension systems, project management, team building, technical report writing, and oral presentations. Prerequisite(s): Juniors standing and consent of instructor. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with ME 662. Credit at the 600-level requires additional work. 3 credit(s)

**ME 470 - Experimental Mechanics of Materials**

Failure theories for isotropic and composite materials, stress concentration, fracture mechanics, combined loading, photoelasticity, composites fabrication, mold making, mechanical testing, and microstructural analysis. Prerequisite(s): ME 302 and ME 302L and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Lab/Lecture/Studio Hours Three hour lab and two hour lecture per week. Note(s): This course is crosslisted with ME 670. Credit at the 600-level requires additional work. 3 credit(s)

**ME 480 - Gas Dynamics**

Examines the basic concepts and theories associated with compressible fluid flow. Normal and oblique shocks, 1-D analysis, and method of characteristics discussed. Prerequisite(s): ME 311, ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 680. Credit at the 600-level requires additional work. 3 credit(s)

**ME 482 - Aerodynamics**

Presents fluid flow concepts leading to the design of flow surfaces and passages to achieve optimum performance over the widest range of significant parameters. Topics include boundary layer theory, lift, airfoil analysis, and numerical methods for fluid mechanic analyses. Prerequisite(s): ME 380 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. Note(s): This course is crosslisted with ME 682. Credit at the 600-level requires additional work. 3 credit(s)

**ME 491 - Independent Study**

Independent study of a selected engineering topic. Prerequisite(s): Senior standing in engineering or consent of instructor with departmental approval. May be repeated for a maximum of six credits. 1-3 credit(s)

**ME 492 - Fundamentals of Engineering Examination Registration**

Registration for the Fundamentals of Engineering Discipline-Specific Mechanical Engineering examination. Review of exam materials. Required of all graduating seniors in mechanical engineering. Attendance at the FE examination is required. Corequisite(s): ME 497. Prerequisite(s): Senior standing. Note(s): S/F grading only. 1 credit(s)

**ME 495 - Special Topics in Engineering**

Outlet for experimental and other topics which may be of current interest. Prerequisite(s): Upper-division standing in engineering. May be repeated once under different topic. Note(s): Topics and credits to be announced. May have a laboratory. 1-4 credit(s)

**ME 497 - Senior Design Project I**

Synthesis course to involve students in the design process. Project proposal and design definition. Corequisite(s): Senior standing in engineering. Prerequisite(s): Advanced standing and consent of instructor required. 2 credit(s)

**ME 498 - Senior Design Project II**

Synthesis course to involve students in the design process. Analysis, design completion, and presentation. Prerequisite(s): ME 497 and Engineering Major. All prerequisite courses must be completed with a grade of C or better. 2 credit(s)

# College of Fine Arts

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## ***Purpose and Focus***

The College of Fine Arts seeks to provide the highest academic standards and professional training for its students. The academic experience provided by the college heightens awareness of the physical, intellectual, and cultural world while preparing students for professional employment and/or post-graduate study in their artistic area. The faculty's reputations in their fields have brought UNLV to its rightful place as a center for the arts in the Southwest. The faculty of each department is augmented by an excellent artist-in-residence program, affording students exposure to a wide array of artistic achievement. Students perform in the 550-seat Judy Bayley Theatre, the 300-seat Doc Rando Recital Hall, the 99 seat Black Box Theatre, the 99 seat Paul Harris Theatre, or the 2,000-seat Artemus Ham Concert Hall. The Donna Beam Fine Arts Gallery and a variety of fine arts studios provide students in the visual arts opportunities to develop their artistic skills. The departments also control a variety of movement and acting studios as well as "classroom project" concert halls. The Paul B. Sogg Architecture building has its own extensive design, studio, computer, and library facilities as well as the Downtown Design Center which exposes students to "Real World" design and planning issues. The Beam Music Center also houses the music library, recording studio, midi and computer lab, and large and small rehearsal facilities.

## ***Accreditation***

Northwest Commission on Colleges and Universities  
Council of Interior Design Accreditation  
Landscape Architecture Accrediting Board  
National Architectural Accrediting Board (M.Arch)  
National Association of Schools of Art and Design  
National Association of Schools of Music

## ***Departments, Majors, Minors and Undergraduate Degrees***

### **College of Fine Arts**

Entertainment Engineering and Design — Bachelor of Science

### **School of Architecture**

Architecture — Bachelor of Science

Interior Architecture and Design — Bachelor of Science

Landscape Architecture — Bachelor of Landscape Architecture

Landscape Studies Minor

### **Department of Art**

Art — Bachelor of Arts

Painting/Drawing/Printmaking Concentration

Photography Concentration

Sculptural Practices Concentration

Art History — Bachelor of Arts

Graphic Design & Media — Bachelor of Science

### **Department of Dance**

Dance — Bachelor of Fine Arts

Performance/Choreography

Dance — Bachelor of Arts

Production/Management

### **Department of Film**

Film — Bachelor of Arts

### **Department of Music**

Music — Bachelor of Arts

Recital Concentration

History and Literature Concentration

Music — Bachelor of Music

Applied Music/Piano Concentration

Applied Music/Instrumental Concentration

Applied Music/Vocal Concentration

Composition/Piano Concentration

Composition/Instrumental Concentration

Composition/Vocal Concentration

Music Education/Piano Concentration

Music Education/Instrumental Concentration

Music Education/Vocal Concentration

Jazz Studies/Composition Concentration

Jazz Studies/Performance Concentration

### **Department of Theatre**

Senior Adult Theatre — Bachelor of Arts

Gerontology Certificate

Theatre — Bachelor of Arts

Design/Technology Concentration

Stage and Screen Acting Concentration

Theatre Studies Concentration

## ***Graduate Degree Programs***

Art — Master of Fine Arts

Architecture — Master of Architecture

Film — Master of Fine Arts — Writing for Dramatic Media

Music — Master of Music, Doctor of Musical Arts

Theatre — Master of Arts, Master of Fine Arts

## ***Minors***

Art History

Dance

Film

Landscape

Music

Pilates

Theatre

## ***Certificate***

Pilates Training

Graduate Certificate Program in Teacher Licensure — K-12

## ***Admission to the College***

Minimum GPA: 2.00

**Admission Policies:** Students who fail to meet the entrance-requirement GPA may appeal in writing to the College of Fine Arts Academic Standards Committee for consideration of any extenuating circumstances affecting their case.

Individual departments within the College of Fine Arts may have cumulative GPA requirements for their majors higher than that required by the college.

Students must satisfy department GPA requirements before being admitted to the major. Students failing to meet department GPA entrance requirements may appeal in writing to department chairpersons for consideration of any extenuating circumstances affecting their case.

**Transfer Policies:** Students should refer to each department or program specifically for the specific articulation of transfer credit. University policies state that a candidate for the bachelor's degree must complete the last 30 semester credits in uninterrupted residence as a major in the college from which the degree is expected.

**Academic Policies:** Students may not fulfill the university and college requirements with courses in their major field. No course may satisfy more than one requirement. Students fulfilling these college requirements will simultaneously satisfy Nevada System of Higher Education (NSHE) and University of Nevada, Las Vegas, general education requirements.

A 2.70 must be maintained for courses taken in the student's major area.

**Probation/Suspension:** A student is subject to a one-semester suspension from the College of Fine Arts after being on probation (less than 2.00 UNLV GPA) for two consecutive semesters. The evaluation of the status of probation students will be made at the end of each spring semester by the dean or dean's designee.

Students wishing to appeal a college suspension may apply for relief to the College of Fine Arts Academic Standards Committee, the University Academic Standards Committee, and the provost (in that order).

Students should consult with the dean's office for the procedure for reinstatement following either university or college suspension.

**Advising:** All new students will initially meet with an advisor in the College of Fine Arts' Advising Center and will subsequently work with an academic advisor from the center during their freshmen and sophomore years. At the beginning of their junior year, students will meet with a faculty mentor who will then assist them with their academic plans through graduation. Additionally, each department within the college has specific advising policies articulated in their respective sections of the catalog.

### **Entertainment Engineering and Design Major - Bachelor of Science (BS)**

Please see the UNLV Entertainment Engineering and Design department web page at [www.eed.egr.unlv.edu/](http://www.eed.egr.unlv.edu/) for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### **Design Technology Option**

#### **Learning Outcomes**

To achieve these objectives and goals, each graduate of the Entertainment Engineering Technology and Design program will attain the following outcomes before graduation:

1. Appropriate technical knowledge and skills
  - a. an ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies
  - b. an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities
  - c. an ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
  - d. an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes
  - e. an ability to identify, analyze, and solve broadly-defined engineering technology problems
2. Appropriate fine art knowledge and skills
  - a. knowledge and comprehension of entertainment design principles and concepts
  - b. an ability to use technology to communicate through art
  - c. an ability to express visual concepts and ideas in a creative manner at a professional level
  - d. an ability to demonstrate appropriate technical knowledge and skills of various artistic mediums
3. Appropriate interpersonal skills
  - a. an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature
  - b. an ability to function effectively as a member or leader on a technical team
4. The knowledge and skills to be a responsible citizen
  - a. an understanding of the need for and an ability to engage in self-directed continuing professional development
  - b. an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
  - c. a knowledge of the impact of engineering technology solutions in a societal and global context
  - d. a commitment to quality, timeliness, and continuous improvement

### **Program Objectives**

The educational objectives of the Bachelor of Science in Entertainment Engineering Technology and Design is to educate students so that they can work in the design, production, installation, and operation of entertainment devices, systems, and venues.

### **Program Goals**

To achieve these objectives, the Entertainment Engineering and Design: Technology Option program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

## Engineering Option

### Learning Outcomes

To achieve these objectives and goals, each graduate of the Entertainment Engineering and Design program will attain the following outcomes before graduation:

1. The appropriate technical knowledge and skills
  - a. An ability to apply knowledge of mathematics, science, and engineering
  - b. An ability to design and conduct experiments, as well as to analyze and interpret data
  - c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
  - d. An ability to identify, formulate, and solve engineering problems
  - e. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
2. Appropriate fine art knowledge and skills
  - a. knowledge and comprehension of entertainment design principles and concepts
  - b. an ability to use technology to communicate through art
  - c. an ability to express visual concepts and ideas in a creative manner at a professional level
  - d. an ability to demonstrate appropriate technical knowledge and skills of various artistic mediums
3. The appropriate interpersonal skills
  - a. An ability to communicate effectively
  - b. An ability to function on multidisciplinary teams
4. The knowledge and skills to be responsible citizens
  - a. An understanding of professional and ethical responsibility
  - b. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
  - c. A recognition of the need for, and an ability to engage in life-long learning
  - d. A knowledge of contemporary issues

### Program Objectives

The educational objectives of the Bachelor of Science in Entertainment Engineering and Design: Engineering Option is to educate students so that they can work in the entertainment engineering field as it applies to the design, manufacture, and control of structures, machines, processes, and systems used in the entertainment industry.

### Program Goals

To achieve these objectives, the Entertainment Engineering and Design program's goals are for the graduate to possess:

1. Appropriate technical knowledge and skills
2. Appropriate fine art knowledge and skills
3. Appropriate interpersonal skills
4. The knowledge and skills to be a responsible citizen

### University Graduation Requirements

- Please see Graduation Policies for complete information

Entertainment Engineering and Design

Degree Requirements.....Total: 135-141 Credits  
(see notes 1-3 below)

General Education Requirements..... Subtotal: 33-36 Credits

First-Year Seminar ..... Credits:2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
(see note 5)

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Or a combination of one course from each of the following two lists:

US Constitution

- HIST 101 - United States: Colonial Period to 1877

- HIST 106 - European Civilization Since 1648

Nevada Constitution

- HIST 102 - United States Since 1877

- HIST 217 - Nevada History

- PSC 100 - Nevada Constitution

Mathematics - Fulfilled within the major.

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits

- PHIL 242 - Ethics For Engineers and Scientists (see note 5)

- COM 216 - Survey of Communication Studies

- ART 101 - Drawing I

- Social Science: 9 credits

- ECON 190 - Global Economics (see note 4)

- EGG 307 - Engineering Economics

- One social science elective course chosen to satisfy the Multicultural Requirement

- Life and Physical Sciences and Analytical Thinking:

- Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

(see note 4)

Major Requirements - BS Entertainment Engineering and Design

Major - Design Technology Option ..... Subtotal: 102-103 Credits

Required Mathematics, and Natural Science Courses.... Credits: 19

- MATH 181 - Calculus I (Fulfills the Mathematics General Education Requirement)

- MATH 182 - Calculus II

- STAT 152 - Introduction to Statistics

- PHYS 151 - General Physics I

- PHYS 151L - General Physics I

- PHYS 152 - General Physics II

- PHYS 152L - General Physics II

Required Entertainment Design Courses ..... Credits: 24

- EED 110 - Material Science and Fabrication Techniques

- EED 111 - Basic Kinetic Structures

- EED 210 - Multi-Media Design

- EED 220 - Design for Live Entertainment

- EED 250 - History of Entertainment and Technology

- AAL 270 - Design Communication

- THTR 200 - Introduction to Design/Technology

Required Seminars..... Credits: 8

- EED 100 - Entertainment Engineering and Design Seminar I



- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 400 - Entertainment Engineering and Design Seminar IV

Required Entertainment and Engineering Technology Science Courses..... Credits: 19

- CEM 250 - Construction Materials and Methods
- ABS 341 - Structures for Architects I
- CEM 457 - Project Management

or

- CEE 409 - Engineering Project Management
- CS 135 - Computer Science I
- CpE 100 - Digital Logic Design I
- CpE 200 - Digital Logic Design II

Entertainment Engineering and Technology Tracks..... Credits: 17-18

Complete Two of the three tracks listed below:

Automation..... Credits: 8

- EE 292 - Fundamentals of Electrical & Computer Engineering
- CS 202 - Computer Science II
- CpE 200L - Digital Logic Design II Laboratory
- CpE 310L - Embedded Systems Design Laboratory for EE

Structural Design and Rigging..... Credits: 9

- CEM 270 - Construction Engineering Mechanics
- CEM 370 - Steel and Wood Design in Construction
- EED 320 - Rigging and Structural Design Principles

Entertainment Venue Design..... Credits: 9

- CEM 350 - Facility Systems Design and Construction I
- CEM 351 - Facility Systems Design and Construction II

Fine Arts Electives..... Credits: 9

Complete nine credits from the courses listed below:

- AAD 180 - Design Foundation I
- ART 107 - Design Fundamentals I
- ART 156 - Design Fundamentals III
- ART 216 - Sculpture I
- ART 243 - Digital Imaging I
- GRC 250 - Design & Media Studio I
- ART 419 - Foundry Sculpture
- MUS 231 - Recording Technology I
- THTR 204 - Theatre Technology I
- THTR 404 - Theatre Technology II

Required Internship and Capstone ..... Credits: 6

- EED 493 - Internship in EED
- EED 497 - Senior Design I
- EED 498 - Senior Design II

Major Requirements - BS in Entertainment Engineering and Design Major - Engineering Option.....Subtotal: 107 Credits

Required Mathematics, and Natural Science Courses.... Credits: 33

- MATH 181 - Calculus I Fulfills the Mathematics General Education Requirement
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 431 - Mathematics for Engineers and Scientists I
- MATH 432 - Mathematics for Engineers and Scientists II
- STAT 463 - Applied Statistics for Engineers
- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Required Entertainment Design Courses ..... Credits: 6

- EED 110 - Material Science and Fabrication Techniques
- EED 111 - Basic Kinetic Structures
- EED 100 - Entertainment Engineering and Design Seminar I
- EED 200 - Entertainment Engineering and Design Seminar II
- EED 300 - Entertainment Engineering and Design Seminar III
- EED 400 - Entertainment Engineering and Design Seminar IV

Required Entertainment Engineering Science Courses .. Credits: 43

- CEE 241 - Statics
- CEE 370 - Engineering Mechanics of Deformable Bodies
- CEE 370L - Engineering Mechanics of Deformable Bodies Laboratory
- CEE 381 - Structural Analysis I
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- CpE 100 - Digital Logic Design I
- CpE 200 - Digital Logic Design II
- CpE 200L - Digital Logic Design II Laboratory
- CpE 310L - Embedded Systems Design Laboratory for EE
- EE 292 - Fundamentals of Electrical & Computer Engineering
- EE 360 - Signals and Systems I
- EE 370 - Classical Feedback and Control Systems

or

- ME 421 - Automatic Controls
- ME 242 - Dynamics
- ME 380 - Fluid Dynamics for Mechanical Engineers

Entertainment Engineering Tracks..... Credits: 18

Complete any two of the tracks listed below:

Structural Engineering..... Credits: 9

- CEE 346 - Civil Engineering Materials
- CEE 432 - Geological Engineering
- CEE 444 - Steel Structural Design

Complete any 3 credits from the courses listed below:

- AAD 180 - Design Foundation I
- AAI 322 - Interior Construction and Detailing
- THTR 200 - Introduction to Design/Technology
- THTR 204 - Theatre Technology I

Computer Science Internet ..... Credits: 9

- CS 218 - Introduction to Systems Programming
- CS 341 - Internet Programming
- CS 341L - Internet Programming Lab
- ART 107 - Design Fundamentals I

Computer Science Graphics..... Credits: 9

- MATH 365 - Computational Linear Algebra
- CS 480 - Computer Graphics

Complete any 3 credits from the courses listed below:

- ART 108 - Design Fundamentals II-3D
- ART 216 - Sculpture I
- ART 243 - Digital Imaging I

Robotics..... Credits: 9

- ME 425 - Robotics
- EE 472 - Digital Control Systems

or

- ME 429 - Computer Control of Machines and Processes

Complete any 3 credits from the courses listed below:

- ART 216 - Sculpture I
- ART 419 - Foundry Sculpture

THTR 200 - Introduction to Design/Technology

Acoustics..... Credits: 9

- ME 434 - Noise Control

- THTR 407 - Sound Design for the Theatre  
With consent of faculty advisor,
- THTR 404 - Theatre Technology II can be substituted for any Fine Arts course in Structural Engineering, Robotics and Acoustics tracks.  
Required Capstone..... Credits: 3
- EED 497 - Senior Design I
- EED 498 - Senior Design II

#### **Notes**

1. Regardless of catalog of graduation, students must satisfy prerequisite and corequisite course requirements as specified in the current Undergraduate Catalog.
2. All prerequisite courses must be completed with a grade of C or better before the subsequent course can be taken.
3. All courses counted towards the degree must be completed with a grade of C or better.
4. ECON 190 satisfies the International requirement. The one free 3-credit social science elective should be selected to satisfy the Multicultural requirement.
5. PHIL 242 will simultaneously satisfy both a humanities requirement and the Second Year Seminar requirement for students obtaining a degree from the College of Engineering that requires more than 120 credits.

#### **CFA 100 - First Year Symposia**

Revolutions: Culture confronts Counter-culture in the 1960s  
Through exploration of the eruptive and evocative new forms of Art, Architecture, Film, Theatre and Dance through the turbulent 1960s, the course examines the ethical and multi-cultural collision of the establishment and anti-establishment values and how these movements continue to inform and influence the various disciplines comprising the Fine Arts today. 2 credit(s)

#### **CFA 101 - Introduction to Environmental Design**

This survey focuses on historical, theoretical, social, technical, and environmental forces that shape the design professions. Especially for majors and non-majors who wish to explore this field as a career choice. 3 credit(s)

#### **CFA 102 - Perspectives in Popular Music - Freshman Year Seminar**

Study the origins of popular music through listening assignments, group discussions, readings and quizzes, research, live music review and a final exam. This course encompasses musical, historical, political and sociological aspects and introduces incoming first-time freshmen to university practices, expectations and resources, and helps create a successful transition to UNLV. Prerequisite(s): Freshman Standing. 3 credit(s)

#### **CFA 103 - Survey of Dance**

In depth studies in dance and related topics. This course is designed to foster the individuals understanding of academia and the learning strategies and study skills that emphasize critical and divergent thinking, inquiry and creativity. Through a series of global topics; social awareness and political tolerance will be encouraged. The course embraces artistic, cultural, intellectual, ethical and spiritual differences through mutual respect, research, discussion and presentations. These will include the importance of diversity and inclusivity. Further; students will be provided insight into the institution's academic offerings and the role that dance offers in societies around the world. 3 credit(s)

## **School of Architecture**

### ***Purpose and Focus***

The School of Architecture provides professional and continuing education in the design professions of architecture, landscape architecture, interior architecture and design, and urban and regional planning. In addition to addressing the theoretical and pragmatic aspects of general design education, the school focuses upon the important design issues facing Las Vegas, Nevada, and the Southwest: resort and entertainment design, sustainable desert development, speculative development, and climatic and cultural issues relevant to arid regions.

### ***Vision***

The UNLV School of Architecture is a diverse and dynamic learning environment that offers professional education in socially and environmentally responsible design. The school capitalizes on its unique regional location to improve the human condition through teaching, research, and service.

### ***Accreditation***

Northwest Commission on Colleges and Universities

### **Council for Interior Design Accreditation**

Many states in the United States and most provinces in Canada have legal registration laws regulating the title or the practice of an interior designer. The rationale for licensing addresses the distinct and different expertise of professional qualifications. Licensing qualifications in Nevada, as in many other states and provinces, require graduation from a CIDA accredited interior design program (the Council for Interior Design Accreditation is recognized as the reliable authority on interior design education by the Council for Higher Education Accreditation), with a minimum of two years of work experience in the field, and passage of the NCIDQ Examination (the National Council for Interior Design Qualification is the recognized examination body in interior design), or an equal examination such as the Architectural Registration Examination.

The Council of Interior Design Accreditation (CIDA) is an international organization that accredits professional interior design education programs in the United States and Canada. Its primary purpose is to ensure a high level of quality in interior design education to meet the needs of students, the interior design profession, and society.

The UNLV Bachelor of Science in Interior Architecture and Design program was last reviewed and reaccredited by CIDA in 2008. The next CIDA accreditation visit is scheduled for 2014.

### **Landscape Architecture Accrediting Board**

Most states, including Nevada, require graduation from an accredited landscape architecture program plus two years professional experience prior to sitting for state board examinations. Once candidates have passed state board examinations, they are eligible to become licensed landscape architects.

The Landscape Architecture Accreditation Board (LAAB) reviews programs regularly (up to every six years depending on the LAAB Board recommendation). The UNLV Bachelor of Landscape Architecture program was last reviewed and reaccredited by LAAB in 2009.

### **National Architectural Accrediting Board (M.Arch.)**

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The UNLV School of Architecture offers the following NAAB-accredited degree programs:

- M. Arch. (pre-professional degree + 48 credits)
- M.Arch. (non-pre-professional degree + 96 credits)

The next NAAB accreditation visit for both programs: 2017.

### ***Undergraduate Majors***

Architecture

Interior Architecture and Design

Landscape Architecture

### ***Admission to the Major***

Minimum GPA: 3.00

**Admission Policies:** Admission to the first year programs of the School of Architecture is open to all UNLV students. Students may choose to major in any of the school's four design programs. Admission to School of Architecture second year studio programs is competitively based on a student's grade point average and successful completion of first year studies.

Before a student may enroll in upper-division courses, including studio, within the School of Architecture, each student must gain approval by the Faculty Review Committee. Admittance to upper division is based upon a faculty review of:

1. Successful completion of all required courses in lower-division studies and the achievement of a minimum of 3.00 grade point average (see Major Degree Requirements in the current Undergraduate Catalog and the current degree sheet for your major);
2. Completed School of Architecture Application for Upper- Division form;
3. A portfolio of creative work;
4. A written statement describing your professional interest and career development opportunities as you pursue any of the three design professions offered by the SOA.

The application deadline for AAD program is March 15 of each year. ARC and LAND deadlines are the first Monday after spring semester final exams week.

Each application is checked for compliance with the minimum requirements prior to ranking by the review committee. Incomplete applications will not be accepted.

**Transfer Policies:** Transfer students applying for upper-division programs of the school from other institutions must submit the following to be considered for admission based upon faculty review:

1. Portfolio of design work that demonstrates graphic skills, model-making skills, basic two- and three-dimensional composition, basic understanding of spatial organization, understanding of color, and basic site and handicap accessibility planning;
2. Completed School of Architecture Application for Upper Division form including documentation and description of community service and/or professional experience.
3. A creative or research essay produced for any course, or an essay as defined by the School of Architecture faculty annually.
4. Letter of professional intent.
5. Official transcripts from other institutions previously attended.

While the university accepts credits transferred from other accredited institutions, transfer credits are not applied to the School of Architecture programs until reviewed and accepted by this unit. Transfer credits for required program courses must be from NAAB-, CIDA-, or LAAB- accredited institutions. Transfer course work must be equivalent in both content and level of offering. In addition, a faculty review of samples of work (or portfolio of work) from previous studio or laboratory classes is required.

### ***Department Policies***

Attendance at classes, laboratories, studios, and seminars is required. If excessive absences are noted in a particular course, the student will be notified in person and by letter that he or she will be administratively withdrawn if further unexcused absences are noted. If further absences occur after notification, the student will be withdrawn from the course and the program.

All lower-division design studios must be taken in sequence. With the consent of instructor and program advisor, an upper-division student in one design program may substitute one upper-division studio in another design program, except that students in the Architecture program may substitute another upper- division studio only for AAE 482.

The School of Architecture reserves the right to retain, photograph, or record any or all student projects for the program's future use or publication.

Courses in the School of Architecture are graded with a letter grade with pluses and minuses. Grades received from UNLV or other institutions are also evaluated for letter grades only in determining grade point averages for admission to the program's upper division.

Upper-division students in the School of Architecture design programs are required to complete a 200-hour internship with a professional design firm.

Because the school's upper-division programs are sequential, and space in the program is limited, students are encouraged to progress through the curriculum with their class.

All students are required to have a laptop computer by the beginning of their second year of enrollment in the School of Architecture program. A recommended list of laptop configurations and program software is available from the School of Architecture front office and the School of Architecture website.

**Probation:** Students in the lower-division program who are placed on probation must observe rules or limitations that the School of Architecture imposes on their probation as a condition of retention. If after one semester on probation an overall grade point average of at least 2.50 has not been achieved and/or the conditions of probation

have not been met, the student will be disqualified from enrollment in School of Architecture courses. Appeals may be made to the Program Standards Committee before the beginning of the following semester. See university retention standards.

Students in upper-division programs are placed on probation when they incur any of the following:

1. Failure, incomplete, or withdrawal from any required course.
2. A semester GPA below 2.50.
3. A grade of below C- in any course required for a major.
4. Violation of the university code of student responsibility and/or any admission agreement. See university retention standards.

Students on program probation must observe rules limitations that the School of Architecture and the Planning Standards Committee place on their probation as a condition of continuation. Students will be removed from programs if:

1. After one semester on probation, the requirements imposed are not met and/or the overall GPA is not above 2.50.
2. Failures or withdrawals in required courses are not resolved at the next offering of the course or if failures or withdrawals from required sequential courses are not resolved.
3. Incompletes in required sequential courses are not completed before the first day of class of the next semester.
4. Any course required for a major in which a grade less than C- is received must be retaken with an earned grade of C- or above. For design studio courses, this must be accomplished prior to progressing to the next studio level.

Students removed from programs are not guaranteed reinstatement in the program even if probation requirements or requirements necessary for readmission after removal from a program are fulfilled. Appeals may be made to the Program Standards Committee.

## Advising

Lower-division students will be assigned to an academic advisor upon entering the School of Architecture. When accepted into the upper-division design programs, students will be advised by the program coordinator or a designated faculty member.

## Architecture Major- Bachelor of Science (BS)

Please see the UNLV School of Architecture web page at <http://architecture.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Objectives

1. Communicate effectively in written, spoken, visual and digital modes.
2. Conduct and apply research in relevant precedents and historic traditions, including global and multicultural societies.
3. Demonstrate understanding of formal ordering systems.
4. Design sites, facilities and systems that respond to site and climate.
5. Design sites, facilities and systems which reflect basic life safety and accessibility issues.

6. Understand the basic principles of structural behavior and system selection and environmental control system design.
7. Understand the relationship between human behavior, the natural environment, and the built environment.
8. Understand the designer's role in society and the means of carrying out that role through informed, responsible and ethical decision making.

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Architecture Degree Requirements .....Total: 120-123  
 General Education Requirements ..... Subtotal 38-42  
 First-Year Seminar ..... Credits: 2-3  
 English Composition ..... Credits: 6
- ENG 101 - Composition I
- and
- ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
 Constitutions ..... Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
- or
- PSC 101 - Introduction to American Politics
- Mathematics ..... Credits: 3-5
- MATH 127 - Precalculus II
- or
- MATH 128 - Precalculus and Trigonometry
- Distribution Requirements ..... Credits: 19  
 Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
    - Automatically satisfied by Major requirements
  - Social Science: 9 Credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking: 10 Credits
    - Two courses from life and physical sciences category (at least one course of which must have a laboratory);
  - PHYS 151 - General Physics I
  - PHYS 151L - General Physics I
  - Physical Science elective
    - Analytical Thinking
  - PHIL 102 - Critical Thinking and Reasoning
- Multicultural and International  
 Multicultural, one 3 credit course required  
 International, one 3 credit course required  
 These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>
- Major Degree Requirements - BS in Architecture Subtotal: 81 Credits  
 Humanities and Fine Arts Electives ..... Credits: 6  
 Basic Design Core ..... Credits: 24
- AAD 180 - Design Foundation I
  - AAD 201 - History of the Built Environment/Discussion
  - AAD 201D - History of the Built Environment/Discussion
  - AAD 202 - Analysis of the Built Environment
  - AAD 267 - Introductory to Digital Media
  - AAE 280 - Design Foundation II
  - AAE 282 - Design Foundation III
- Upper-level Design Courses ..... Credits: 51
- AAD 367 - Advanced Digital Media
  - AAD 400 - Clinical Internship



- AAE 380 - Architectural Design I
- AAE 382 - Architectural Design II
- AAE 455 - The Enlightenment to Mid-20th Century: Architectural History and Theory
- AAE 480 - Architectural Design III
- AAE 481 - Architecture, Place and Identity
- AAE 482 - Architectural Design IV
- ABS 321 - Construction Technologies I
- ABS 322 - Construction Technologies II
- ABS 331 - Environmental Control Systems I
- ABS 332 - Environmental Control Systems II
- ABS 341 - Structures for Architects I
- ABS 440 - Structures for Architects II

Total Credits: ..... 120-123

### **Interior Architecture and Design Major - Bachelor of Science (BS)**

Please see the UNLV College of Fine Arts - Department of Interior Architecture & Design web page at [www.unlv.edu/degree/bs-interior-architecture-design](http://www.unlv.edu/degree/bs-interior-architecture-design) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Council for Interior Design Accreditation [accredit-id.org/](http://accredit-id.org/)

### **Learning Objectives**

#### **Global Perspective on Design**

- Entry level designers have a global view and weigh design decisions within the parameters of ecological, socio-economic, and cultural contexts.
  - Student work demonstrates understanding of the concepts principles, and theories of sustainability as they pertain to building methods, materials, systems and occupants.
  - Students understand the implications of conducting the practice of design within a world context and, how design need may vary for a range of socio-economic stakeholders.

#### **Human Behavior**

- The work of interior designers is informed by knowledge of behavioral science and human factors.
  - Students understand that social and behavioral norms may vary from their own and are relevant to making appropriate design decisions.
  - Student work demonstrates the ability to appropriately apply theories of human behavior, to select, interpret and apply appropriate anthropometric data, and appropriately apply universal design concepts.

#### **Design Process**

- Entry-level designer need to apply all aspects of the design process to creative problem solving. Design process enables designers to identify and explore complex problems and generate creative solutions that support human behavior within the interior environment.
  - Students are able to:
    - Identify and define relevant aspects of a design problem (goals, objectives, performance criteria)

- Gather, evaluate, and apply appropriate and necessary information and research findings to solve the problem (pre-design investigation)
- Synthesize information and generate multiple concepts and/or multiple design responses to programmatic requirements.
- Demonstrate creative thinking and originality through presentation of a variety of ideas, approaches, and concepts.

#### **Collaboration**

- Entry-level interior designers engage in multi-disciplinary collaborations and consensus building.
  - Students have awareness of team structures and dynamics, and the nature and value of integrative design practice.

#### **Communication**

- Entry level designers are effective communicators
  - Students apply a variety of communication techniques and technologies appropriate to a range of purposes and audiences
  - Students are able to:
    - Express ideas clearly in oral and written communication
    - Use sketches as design and communication tools
    - Produce competent presentation drawings across a range of appropriate media
    - Produce competent contract documents including coordinated drawings, schedules, and specifications appropriate to project size and scope and sufficiently extensive to show how design solutions and interior construction are related.
    - Integrate oral and visual material to present ideas clearly.

#### **Professional and Business Practice**

- Entry level interior designers use ethical and accepted standards of practice, are committed to professional development and the industry, and understand the value of their contribution to the built environment.
  - Students understand:
    - The contributions of interior design to contemporary society
    - Various types of design practices
    - The elements of business practice (business development, financial management, strategic planning, and various forms of collaboration and integration of disciplines)
    - The elements of project management, project communication, and project delivery methods.
    - Professional ethics.

#### **History**

- Entry-level interior designers apply knowledge of interiors, architecture, art, and the decorative arts within a historical and cultural context.
  - Students understand the social, political, and physical influences affecting historical changes in design of the built environment.
  - Students understand:
    - Movements and periods in interior design and furniture
    - Movements and traditions in architecture
    - Stylistic movements and periods of art
      - Students apply historical precedent to inform design solutions

#### **Space and Form**

- Entry-level interior designers apply elements and principles of two- and three-dimensional design.
  - Students effectively apply the elements and principles of design to

- Two-dimensional design solutions
- Three-dimensional design solutions
- Students are able to evaluate and communicate theories or concepts of spatial definition and organization.

## Color

- Entry level interior designers apply color principles and theories.
  - Student work demonstrates understanding of:
    - Color principles, theories and systems.
    - The interaction of color with materials, texture, light, form and the impact on interior environments.
  - Students:
    - Appropriately select and apply color with regard to its multiple purposes.
    - Apply color effectively in all aspects of visual communication (presentations, models, etc.)
    - Furniture, Fixtures, Equipment, and Finish Materials.
    - Entry-level interior designers select and specify furniture, fixtures, equipment and finish materials in interior spaces.
  - Students have awareness of:
    - A broad range of materials and products
    - Typical fabrication and installation methods, and maintenance requirements.
  - Students select and apply appropriate materials and products on the basis of their properties and performance criteria, including ergonomics, environmental attributes, and life cycle cost.
  - Students are able to layout and specify furniture, fixtures, and equipment.

## Environmental Systems and Controls

- Entry-level interior designers use the principles of lighting, acoustics, thermal comfort, and indoor air quality to enhance health, safety, welfare, and performance of building occupants.
  - Students:
    - Understand the principles of natural and electric lighting design.
    - Competently select and apply luminaires and light sources.
  - Students understand:
    - The principles of acoustical design.
    - appropriate strategies for acoustical control.
  - Students understand:
    - The principles of thermal design
    - How thermal systems impact interior design solutions.
  - Students understand:
    - The principles of indoor air quality
    - How the selection and application of products and systems impact indoor air quality.

## Interior Construction and Building Systems

- Entry-level interior designers have knowledge of interior construction and building systems.
  - Student work demonstrates understanding that design solutions affect and are impacted by:
    - Structural systems and methods
    - Non-structural systems including ceilings, flooring and interior walls
    - Distribution systems including power, mechanical, HVAC, data/voice, telecommunications, and plumbing
    - Energy, security, and building control systems,
    - The interface of furniture with distribution and construction systems
    - Vertical circulation systems

- Students are able to read and interpret construction drawings and documents.

## Regulations

- Entry-level interior designers use laws, codes, standards, and guidelines that impact the design of interior spaces.
  - Students have awareness of:
    - Sustainability guidelines
    - Industry-specific regulations.
  - Student work demonstrates understanding of laws, codes, standards, and guidelines that impact fire and life safety, including:
    - Compartmentalization: fire separation and smoke containment
    - Movement: access to the means of egress including stairwells, corridors, exitways.
    - Detection: active devices that alert occupants including smoke/heat detectors and alarm systems.
    - Suppression: devices used to extinguish flames including sprinklers, standpipes, fire hose cabinets, extinguishers, etc.
  - Students apply appropriate federal, state/provincial, and local codes, and standards, and accessibility guidelines.

## University Graduation Requirements

- Please see Graduation Policies for complete information.

### Interior Architecture and Design

Degree Requirements.....Total: 121-123 Credits

General Education Requirements..... Subtotal: 40-43 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 5-6

- MATH 126 - Precalculus I

Note: MATH 126 & MATH 127 may be an alternative to MATH 128

Distribution Requirements ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:

- Automatically satisfied by Major requirements

- Social Science: 9 credits

- One course each from three different fields  
(See note 1 below)

- Life and Physical Sciences and Analytical Thinking: 10 credits

- Two courses from Life and Physical Science; at least one course must have a lab

- PHIL 102 - Critical Thinking and Reasoning

- PHYS 151 - General Physics I

- PHYS 151L - General Physics I

- Physical Science Elective

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirement - BS in Interior Architecture and

Design - Subtotal: ..... Credits: 81

Humanities and Fine Arts Electives ..... Credits: 6

- AAD 201 - History of the Built Environment/Discussion
- AAD 201D - History of the Built Environment/Discussion
- ART 160 - Art Appreciation
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II

or

- ART 266 - Survey of Art History III

Pre-approved Elective: 3 Credits

Lower Division Design Core Courses ..... Credits: 21

- AAI 180 - Design Foundation I
- AAD 267 - Introductory to Digital Media
- AAI 280 - Design Foundation II
- AAI 282 - Design Foundation III
- AAD 466 - 3-D Presentation Graphics

Upper-Division Design Core Courses ..... Credits: 51

- AAI 322 - Interior Construction and Detailing
- AAI 323 - Interior Construction Documents and Specifications
- AAI 332 - Interior Architectural Systems
- AAI 353 - History of Architectural Interiors I
- AAI 354 - History of Architectural Interiors II
- AAI 373 - Interior Design I
- AAI 374 - Interior Design II
- AAI 400 - Professional Internship
- AAI 450 - Designed Environment and Human Behavior
- AAI 473 - Interior Design III
- AAI 474 - Interior Design IV
- AAI 491 - Professional Practice
- ABS 321 - Construction Technologies I
- ABS 443 - Interior Lighting Design

Pre-Approved Electives ..... Credits: 0-5

Total Credits: ..... 120

### Note:

1. Social Science:

Social Science Elective

Social Science Elective (International Studies)

Social Science Elective (Multicultural Studies)

Note: Courses satisfying social science or other requirements may simultaneously satisfy the multicultural and international requirements if they appear on the approved lists. One course cannot, however, satisfy both the multicultural and international requirements. For the list of approved multicultural and international courses visit: <http://facultysenate.unlv.edu/students>.

### Landscape Architecture Major - Bachelor of Science (BS)

Please see the UNLV College of Fine Arts - Department of Landscape Architecture web page at [architecture.unlv.edu/landscape.html](http://architecture.unlv.edu/landscape.html) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - American Society of Landscape Architects [www.asla.org/index.aspx](http://www.asla.org/index.aspx)

### Learning Objectives

1. Discern areas of practice in landscape architecture and the range of applications associated with each area;
2. Implement a range of landscape architecture design processes;
3. Implement a range of creative tools such as brainstorming, divergent, and convergent thinking, etc.;
4. Implement a range of design considerations relevant to site inventory and analysis and site design considerations;
5. Implement a range of planning considerations relevant to landscape architecture, including history and precedence, regulations, and economics;
6. Discern a range of issues related to sustainability relevant to landscape architecture;
7. Implement a range of technical considerations relevant to landscape architecture construction;
8. Analyze and describe a range of issues related to plant knowledge;
9. Discern a range of principles that define the profession, demonstrate a professional demeanor, and articulate the systems that support landscape architecture;
10. Discern a range of principles that demonstrate an awareness of the role of landscape architects as advocates and providers of public/client education, including but not limited to issues of: environmental awareness and stewardship, and an awareness and sensitivity to issues related to social justice such as socio-economic diversity, cultural diversity and inclusivity;
11. Implement a range of research fundamentals that foster a capacity for comprehensive reading, working in groups, critical thinking, primary and secondary research, and selecting appropriate deliverables.
12. Implement a range of principles that foster a capacity to communicate effectively in graphic, written, and verbal formats;
13. Discern a range of issues meant to introduce the importance and structure of the Landscape Architecture Registration Examination;
14. A range of principles that foster a capacity to effectively express a level of competence necessary to succeed as a designer including, but not limited to, craftsmanship, portfolio development, marketing, and developing an awareness of the contemporary issues, practices, techniques, and technologies that influence professional development.

### University Graduation Requirements

- Please see Graduation Policies for complete information.

Landscape Architecture Degree Requirements - Total: 123 Credits  
The profession of landscape architecture embodies both the art and science of design, planning, and management of the land and the natural and man-made elements upon it. The program embraces creative, cultural, philosophical, and scientific knowledge bases as part of the educational requirements for a Bachelor of Landscape Architecture professional degree. The professional curriculum prepares students for areas of practice in landscape architecture and planning including site design, urban design, master planning, community planning, regional planning, and natural resource conservation.

General Education Requirements ..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
 Constitutions ..... Credits: 4-6  
 • HIST 100 - Historical Issues and Contemporary Society  
 or  
 • PSC 101 - Introduction to American Politics  
 Mathematics ..... Credits: 3  
 • MATH 126 - Precalculus I  
 Distribution Requirements ..... Credits: 19  
 Please see Distribution Requirements for more information.  
 • Humanities and Fine Arts:  
   • Automatically satisfied by Major requirement  
 • Social Sciences: 9 credits  
   • One course each from three different fields  
 • Life and Physical Sciences and Analytical Thinking: 10 credits  
   • ENV 101 - Introduction to Environmental Science  
   • GEOL 101 - Exploring Planet Earth  
   or  
   • GEOG 102 - Physical Geography of Earth's Environment  
   and  
   • GEOG 104 - Physical Geography Laboratory  
   • PHIL 102 - Critical Thinking and Reasoning  
 Multicultural and International  
 Multicultural, one 3 credit course required  
 International, one 3 credit course required  
 These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>  
 Major Requirements - BS in Landscape  
 Architecture ..... Subtotal: 84 Credits  
 Major Requirements - Lower Division ..... Credits: 24  
 • LAND 180 - Design Foundation I  
 • LAND 240 - Introduction to Horticulture  
 • LAND 255 - History of Landscape Architecture  
 • LAND 267 - Introductory to Digital Media  
 • LAND 280 - Design Foundation II  
 • LAND 282 - Landscape Architecture Design II  
 Major Requirements - Upper Division ..... Credits: 60  
 • LAND 330 - Design with Climate  
 • LAND 340 - Plants for Arid Environments  
 • LAND 342 - Planting and Irrigation Design  
 • LAND 343 - Site Grading for Landscape Architecture  
 • LAND 367 - Advanced Digital Media  
 • LAND 384 - Landscape Architecture Design I  
 • LAND 386 - Landscape Architecture Design IV  
 • LAND 442 - Materials and Methods for Landscape Architecture  
 • LAND 443 - Stormwater Management  
 • LAND 455 - Theory in Landscape Architecture  
 • LAND 467 - Geographic Information Systems for Landscape Architecture  
 • LAND 484 - Landscape Architecture Design III  
 • LAND 486 - Landscape Architecture Design IV  
 • LAND 491 - Professional Practice  
 • LAND 495 - Special Topics in Landscape Architecture  
 • AAD 400 - Clinical Internship

Total Credits: ..... 122

## **Minor**

### **Landscape Studies Minor**

The landscape minor offers students an opportunity to acquire an understanding of the use, management, history and interpretation of human interaction with the land. The minor will be especially important to students majoring in Environmental Studies, Geography, Water Resources Management, Real Estate and Business, but is not limited to these groups.

Courses Include ..... Total Credits: 19

- ENV 101 - Introduction to Environmental Science
- GEOL 101 - Exploring Planet Earth

or

- GEOG 103 - Physical Geography of Earth's Environment
- and

- GEOG 104 - Physical Geography Laboratory
- LAND 255 - History of Landscape Architecture
- LAND 330 - Design with Climate
- LAND 455 - Theory in Landscape Architecture
- LAND 467 - Geographic Information Systems for Landscape Architecture

### **School of Architecture**

#### **AAD 125L - Construction Drawings and Detailing**

For persons with previous basic drafting skills or office experience. Advanced drafting and detailing techniques for buildings. 2 credit(s)

#### **AAD 180 - Design Foundation I**

Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative processes. Prerequisite(s): Admittance to a School of Architecture. Note(s): Same as LAND 180, AAI 180. 3 credit(s)

#### **AAD 180L - Fundamentals of Design I**

Introduction to the principles and theories of design and design methodology in the "making" and representations of form and space. Corequisite(s): Must be concurrently enrolled in AAD 180 and AAD 180L. Prerequisite(s): Admittance to a School of Architecture major. 0 credit(s)

#### **AAD 182 - Fundamentals of Design II**

This course introduces studio based design exploration, fundamentals of 2D and 3D composition, architectural drawing and modelling skills. Students will be introduced to architectural concepts of tectonics, architectural space and historic precedents. 3 credit(s)

#### **AAD 201 - History of the Built Environment/Discussion**

Relationships among art, architecture, and literature (fiction and non-fiction) from the twenty-fifth century BCE to the present. Emphasis on the built environment as a manifestation of cultural forces and design aesthetics. Corequisite(s): Must be concurrently enrolled in AAD 201 and AAD 201D. Prerequisite(s): ENG 102. 3 credit(s)

#### **AAD 201D - History of the Built Environment/Discussion**

Relationships among art, architecture, and literature (fiction and non-fiction) from the twenty-fifth century BCE to the present. Emphasis on the built environment as a manifestation of cultural forces and design aesthetics. Corequisite(s): Must be concurrently enrolled in AAD 201 and AAD 201D. Prerequisite(s): ENG 102. 0 credit(s)

#### **AAD 202 - Analysis of the Built Environment**

Exploration of space and form-making through examination of historical precedent. Emphasis on developing a visual vocabulary and understanding of the built environment as cultural creation. Prerequisite(s): AAD 201 / AAD 201D with grade of C- or better. 3 credit(s)



**AAD 223 - Graphic Software for Architects, Constructors, Designers, and Planners I**

Survey of design graphics application systems. Special emphasis to be placed on the technical aspects of creating computer graphic images for architectural, construction, design, and planning applications. Prerequisite(s): Admission to a School of Architecture major. 3 credit(s)

**AAD 267 - Computer Applications in Architecture I**

Formerly Listed as AAD 265

Introduction to two and three-dimensional digital design processes. Prerequisite(s): Admission to the major. Note(s): Same as LAND 267. 3 credit(s)

**AAD 367 - Advanced Digital Media**

Examination of advanced geometric modeling and introduction to basic parametric thinking, development of robust drawing typologies, computer generated renderings, and board compositions. Prerequisite(s): AAD 267 . Note(s): Same as LAND 3673 credit(s)

**AAD 400 - Clinical Internship**

Full-time internship under the supervision of registered practitioners or equivalent. Prerequisite(s): Admission to major. Note(s): Two hundred hours required.. This course is crosslisted with AAD 600. Credit at the 600-level requires additional work. 0 credit(s)

**AAD 401 - Study Abroad in Design:**

Part of the International Studies Program. Topics vary from semester to semester. Prerequisite(s): Consent of School of Architecture Director. May be repeated to an indefinite number of credits. Note(s): Approval of program director required. 1-6 credit(s)

**AAD 412 - Elements of Architectural Expression: Colors & Materials**

Creative use of colors and materials as elements of architectural expression. Role of materials and colors, and relationship between their nature and possible uses. Prerequisite(s): Upper-division standing. 3 credit(s)

**AAD 421A - Entertainment and Fine Arts Law I**

Protection of works created by entertainers, artists, and designers, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special considerations to film and music industries. Prerequisite(s): Upper division standing. Note(s): Same as ART 428, DAN 421A, MUS 444\*, THTR 421A. 3 credit(s)

**AAD 421B - Entertainment and Fine Arts Law II**

Unique legal issues in the fields of live stage performance, Theater, music, television and film, the art gallery and museum relationships, including legal and social censorship. First Amendment protection, state and federal obscenity statutes, and contract problems. Prerequisite(s): AAD 421A, ART 428, DAN 421A, MUS 444\*, or THTR 421A. Note(s): Same as ART 429, DAN 421B, MUS 455\*, THTR 421B. 3 credit(s)

**AAD 466 - 3-D Presentation Graphics**

Simple animated visualizations of designs for the built environment. Prerequisite(s): AAD 223 and AAD 267 or equivalent. 3 credit(s)

**AAD 467 - 3-D Animation Graphics**

Advanced animated visualizations of designs for the built environment. Prerequisite(s): AAD 466. 3 credit(s)

**AAD 493 - Independent Study**

Independent study of a selected topic in architectural history and communication. Prerequisite(s): Admission to major. May be repeated to a maximum of six credits. 1-3 credit(s)

**AAD 495 - Special Topics in Design**

Experimental and other topics of current interest in design. Prerequisite(s): Consent of instructor. May be repeated to a maximum of eight credits. Note(s): Topics and credits to be announced. 1-4 credit(s)

**AAE 100 - Introduction to Architecture**

This survey of architectural design focuses on historical, theoretical, social, technical, and environmental forces that shape the design profession. This course is for majors and non-majors who wish to explore this field as a career choice. Collaborative design communication skills are learned and applied in course design challenges. Note(s): Same as AAI 100 and LAND 100. 3 credit(s)

**AAE 280 - Design Foundation II**

Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes. Prerequisite(s): AAD 180. Note(s): Same as LAND 280, AAI 280. 6 credit(s)

**AAE 282 - Design Foundation III**

Students incorporate advanced fundamentals of design principles, concepts and applications. Emphasis will be placed on developing a student's critical ability and approach to design, using various programmatic, topological, and technological themes related to physical and cultural contexts. Prerequisite(s): AAE 280. Note(s): Same as AAI 282, LAND 282. 6 credit(s)

**AAE 330 - Design With Climate**

Effect of climate on energy uses in buildings, architectural design, and occupants' comfort. Covers basic climatic design principles including passive solar design, site analysis, heat transfer, daylighting, and acoustics. Prerequisite(s): Prerequisite. AAE 280. 3 credit(s)

**AAE 380 - Architectural Design I**

Intermediate studies in architectural design exploring the relationships between various programmatic models, normative building types, and technological themes within specific physical, urban, and cultural contexts. Prerequisite(s): AAE 282 and admission to upper division. 6 credit(s)

**AAE 382 - Architectural Design II**

Intermediate studies in architectural design exploring the relationships between various programmatic models, normative building types, and technological themes within specific physical, urban, and cultural contexts. Prerequisite(s): AAE 380. 6 credit(s)

**AAE 435 - Developing Sustainable Design**

Exploration of sustainable design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, ecological, technological, and urban contexts. Prerequisite(s): AAE 330, LAND 330. 3 credit(s)

**AAE 453 - Visionary and Utopian Architecture: Plato to Bladerunner**

Examination of the nature of visionary and utopian architecture through analysis of historical and contemporary precedent, and exploration of possibilities for application of visionary and utopian thought to design. Prerequisite(s): Admission to upper division. Note(s): This course is crosslisted with AAE 653. Credit at the 600-level requires additional work. 3 credit(s)

**AAE 454 - Architecture and the New Urbanism**

Examination of New Urbanism and its implications for architectural design practices. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with AAE 654. Credit at the 600-level requires additional work. 3 credit(s)

**AAE 455 - The Enlightenment to Mid-20th Century: Architectural History and Theory**

Exploration of the major movements in the history and theory of built form, beginning in the eighteenth century with the Enlightenment and continuing through the mid-twentieth century. Prerequisite(s): AAD 202 and upper division standing. 3 credit(s)

**AAE 456 - Twentieth-Century Architectural History and Theory**

Exploration of the major theoretical and historical movements of the twentieth century that have influenced architectural practices including contemporary critical theories. Prerequisite(s): AAE 455. 3 credit(s)

**AAE 457 - Architecture in Las Americas**

Latin American and Latino architectural issues as represented in mainstream practices. Prerequisite(s): Admission to upper division. Note(s): Satisfies Multicultural Requirement. This course is crosslisted with AAE 657. Credit at the 600-level requires additional work. 3 credit(s)

**AAE 458 - History of Renaissance and Baroque Architecture**

(Same as ART 466.) Architecture of Europe from 1400 to 1800. Prerequisite(s): AAD 201/AAD 201D and AAD 202, or ART 260 and ART 261. Note(s): Same as ART 466\*. 3 credit(s)

**AAE 459 - Design and Development**

(Same as AAI 459 and AAL 459.) Survey of the economic and political influences upon the development of building projects and building types. Prerequisite(s): AAE 382. Note(s): (Same as AAI 459 and AAL 459.) 3 credit(s)

**AAE 460 - Issues in Contemporary Urbanism**

Examines the forces shaping contemporary architectural and urban design practices including the effects of cultural, economic, and political transformations upon spatial formations. Prerequisite(s): AAE 382 and AAE 481. Note(s): This course is crosslisted with AAE 660. Credit at the 600-level requires additional work. 3 credit(s)

**AAE 461 - Construction Documents and Specifications**

Instruction in the development of construction document and specifications skills. Emphasizes 16-Division Construction Specifications Institute (CSI) system. Computer applications; projects; research paper. Prerequisite(s): ABS 321. 3 credit(s)

**AAE 480 - Architectural Design III**

Advanced studies in architectural design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, ecological, technological, and urban contexts. Prerequisite(s): AAE 382. 6 credit(s)

**AAE 481 - Architecture, Place and Identity**

Cultural dimensions of architecture and the city. Examining various issues confronting architectural professionals ranging from gender and diversity, multiculturalism, race and ethnicity, and the politics of identity. 3 credit(s)

**AAE 482 - Architectural Design IV**

Advanced studies in architectural design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, urban, ecological, technological, and urban contexts. Prerequisite(s): AAE 480. 6 credit(s)

**AAE 485 - Non-Western Settlements**

Study of non-Western design throughout the world. Examination of cultural, historical, and geographical determinants in the construction of a specific design. Consideration of the impact of multicultural activities. Investigation from supplemental disciplines like sociology, anthropology, and urban geography. Prerequisite(s): Minimum junior standing. Note(s): Satisfies International Requirement. This course is crosslisted with AAE 685. Credit at the 600-level requires additional work. 3 credit(s)

**AAE 493 - Independent Study**

Independent study of a selected topic in architectural design. Prerequisite(s): Consent of instructor and minimum junior standing. May be repeated to a maximum of six credits. 1-3 credit(s)

**AAE 495 - Special Topics in Architectural Design**

Experimental and other topics which may be of current interest in the area of architectural design. Prerequisite(s): Consent of instructor and minimum junior standing. May be repeated to a maximum of eight credits. Note(s): Topics and credits to be announced. 1-4 credit(s)

**AAE 496 - Special Topics in Architectural History and Theory**

Topics of current interest in architectural history and theory. Prerequisite(s): Minimum junior standing. May be repeated to a maximum of nine credits. Note(s): Topics and credits to be announced. 1-3 credit(s)

**AAI 100 - Introduction to Interior Design**

Survey of interior design. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice. Note(s): Same as AAE 100, LAND 100. 3 credit(s)

**AAI 180 - Design Foundation I**

Formerly Listed as AAI 174

Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative processes. Prerequisite(s): Admission to the School of Architecture. Note(s): Same as AAD 180, LAND 180. 3 credit(s)

**AAI 270 - Design Communication**

(Same as AAL 270.) Development of fundamental design communication skills and knowledge integral to complex process of design decision making. Experimental exploration of theories and applications of methodologies basic to the development of design concepts and two- and three-dimensional representation of design products. Prerequisite(s): Admittance to major, junior standing or above, minimum 3.00 GPA, and permission of School of Architecture Director. Note(s): Same as AAL 270. 6 credit(s)

**AAI 280 - Design Foundation II**

Formerly Listed as AAI 273.

Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes. Prerequisite(s): AAI 180. Note(s): Same as LAND 280. 6 credit(s)

**AAI 282 - Design Foundation III**

Formerly Listed as AAD 274

Students incorporate advanced fundamentals of design principles, concepts and applications. Emphasis will be placed on developing a student's critical ability and approach to design, using various programmatic, topological, and technological themes related to physical and cultural contexts. Prerequisite(s): AAI 280. Note(s): Same as LAND 282. 6 credit(s)

**AAI 322 - Interior Construction and Detailing**

Detailed study of the properties and selective technical applications of finish materials in building interiors. Implications of these for the ecological conscious design of interior spaces and the development of industry standard-compliant construction details and installations. Prerequisite(s): ABS 321. 3 credit(s)

**AAI 323 - Interior Construction Documents and Specifications**

Preparation methods of effective specifications guided by an understanding of regulations, standards, and material selection criteria. Comprehensive coverage of legal, industry regulatory, contractual, and construction issues critical to construction documents and specifications. Corequisite(s): AAI 374 Prerequisite(s): AAI 373. 3 credit(s)

**AAI 332 - Interior Architectural Systems**

Human comfort considerations in indoor thermal environment, air quality, ventilation, air conditioning, lighting and acoustics. Emphasis on the design applications of indoor environmental factors and the use of physical and computer modeling. Prerequisite(s): PHYS 151. 3 credit(s)

**AAI 353 - History of Architectural Interiors I**

Design of interior spaces as expression of cultural influences to 1900. Prerequisite(s): AAD 201/AAD 201D. 3 credit(s)

**AAI 354 - History of Architectural Interiors II**

Design of interior spaces as expression of cultural and technological influences, 1900 to present. Prerequisite(s): AAD 201 and AAD 201D. 3 credit(s)

**AAI 373 - Interior Design I**

Studio problems in interior design related to behavioral response in personal and small group spaces. Prerequisite(s): AAI 282, admission to upper division of major. Note(s): Emphasis on color and materials selection. 6 credit(s)

**AAI 374 - Interior Design II**

Studio problems in interior design with emphasis on public and private use of interior places of assembly. Prerequisite(s): AAI 373 and admission to major. 6 credit(s)

**AAI 400 - Professional Internship**

Professional work experience in approved architecture, design, corporate, or government office. Supervision is provided by both the Interior Architecture Program Coordinator and the cooperating agency. Registration for course requires Program Coordinator approval. 0 credit(s)

**AAI 450 - Designed Environment and Human Behavior**

Effects of interior spaces, architecture, and urban settings on human well-being and functioning. Corequisite(s): AAI 473. Note(s): This course is crosslisted with AAI 650. Credit at the 600-level requires additional work. 3 credit(s)

**AAI 455 - Facilities Planning & Design**

Critical aspects of planning/design of the workplace. Addresses real estate use, effective space management through programming and master planning, forecasting, projections, workflow processes and efficiencies. Prerequisite(s): AAI 373. Note(s): This course is crosslisted with AAI 655. Credit at the 600-level requires additional work. 3 credit(s)

**AAI 459 - Design and Development**

Survey of the economic and political influences upon the development of building projects and building types. Prerequisite(s): AAE 382. Note(s): Same as AAE 459 and AAL 459. 3 credit(s)

**AAI 472 - Exhibition Design**

Design of three-dimensional micro environments for exhibitions in temporary and permanent locations. Prerequisite(s): AAI 282 or AAE 282. 3 credit(s)

**AAI 473 - Interior Design III**

Studio problems in interior design related to commercial space planning. Prerequisite(s): AAI 374. 6 credit(s)

**AAI 474 - Interior Design IV**

Studio problems in interior design related to large scale facilities. Prerequisite(s): AAI 473. 6 credit(s)

**AAI 480 - Furniture Design**

Integrated overview of the development and evolution of contemporary furniture design and production. Fundamental concerns include the exploration and analysis of product-specific ergonomic, technical, cultural, and aesthetic considerations. Prerequisite(s): Minimum junior standing, and consent of instructor. 3 credit(s)

**AAI 491 - Professional Practice**

Issues of professional practice, including legal requirements, ethics, management structures, malpractice claims, value engineering, contracts, and the professional job market. Prerequisite(s): Senior standing. 3 credit(s)

**AAI 493 - Independent Study**

Independent study of a selected interior design topic. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**AAI 495 - Special Topics in Interior Design**

Experimental and other topics which may be of current interest in interior design. Prerequisite(s): Consent of instructor. May be repeated to a maximum of eight credits. Note(s): Topics and credits to be announced. 1-4 credit(s)

**AAL 101 - Design With Nature**

Introduces concepts of natural systems and their influence on human activity and living environments. Reviews historical context and cultural adaptations and introduces basic management and use of natural systems. Reviews natural, biological, cultural and design management philosophies. 3 credit(s)

**AAL 270 - Design Communication**

Development of fundamental design communication skills and knowledge integral to the complex process of design decision making. Experimental exploration of theories and applications of methodologies basic to the development of design concepts and two- and three-dimensional representation of design products. Prerequisite(s): Admittance to major, junior standing or above, minimum 3.00 GPA, and consent of School of Architecture Director. Note(s): Same as AAI 270. 6 credit(s)

**AAL 356 - History of Landscape Architecture II**

Physical record of human interaction with the land. Contemporary landscape planning and design. 3 credit(s)

**AAL 430 - Land Use Management**

Planning implementation and evaluation of land use in both urban and non-urban contexts. Emphasis on sustainable use with a focus on conservation of valuable natural resources as well as energy. Constraints related to individual property rights and distribution of wealth treated. Prerequisite(s): Upper-division standing in architecture studies. Note(s): Same as ENV 430.3 credit(s)

**AAL 446 - Land Use Planning and Controls**

Theory and methods of urban land use, planning, and controls, including the rational planning process, comprehensive, functional and neighborhood plans. Prerequisite(s): Admission to upper division. 3 credit(s)

**AAL 455 - Landscape Interpretation**

Investigates the vernacular landscape evolving from decisions made in manipulating physical and social environments. Examines various landscape types, including agricultural, residential, strip development, landfill, industrial, transportation corridors, landmarks, and centers. Emphasizes wayfinding, implied symbolism, and meaning in the landscape. Note(s): This course is crosslisted with AAL 655. Credit at the 600-level requires additional work. 3 credit(s)

**AAL 456 - Campus Planning and Design**

Survey of the history, principles, and spatial form of academic campuses. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with AAL 656. Credit at the 600-level requires additional work 3 credit(s)

**AAL 459 - Design and Development**

Survey of the economic and political influences upon the development of building projects and building types. Prerequisite(s): AAE 382. Note(s): Same as AAE 459 and AAI 459. 3 credit(s)

**AAL 465 - GIS Planning Methods**

Environmental analysis and planning methods utilizing ArcInfo and ArcView program to develop data overlays. Prerequisite(s): AAL 262. Note(s): This course is crosslisted with AAL 665. Credit at the 600-level requires additional work. 3 credit(s)

**AAL 467 - History and Theory of Golf Course Development**

Provides a fundamental knowledge of the history and theory of golf course development. Prerequisite(s): LAND 100 or HMD 101 and upper-division standing. Note(s): This course is crosslisted with AAL 667. Credit at the 600-level requires additional work. 3 credit(s)

**AAL 468 - Golf Course Design**

Explores the intricacies of designing a golf course. Strategic design, as well as golf course construction techniques, including: course routing, putting green complex design, clubhouse planning, and environmental considerations covered. Prerequisite(s): AAL 467 and upper-division standing. Note(s): This course is crosslisted with AAL 668. Credit at the 600-level requires additional work. 3 credit(s)

**AAL 494 - Landscape Architecture Design VII**

First of two capstone studios which synthesize technical, theoretical, historical, and cultural classes in solving landscape design problems. Prerequisite(s): LAND 486. 6 credit(s)



**AAL 496 - Landscape Architecture Design VIII**

Final capstone studio which synthesizes technical theory, history and cultural classes in solving landscape design problems. Prerequisite(s): AAL 494. 6 credit(s)

**AAP 100 - Introduction to Urban Planning**

Survey of urban planning. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice. 2 credit(s)

**AAP 366 - History of Cities I**

The city from its origins to the present day. Emphasis on European and American cities during the last five centuries. Prerequisite(s): AAD 202 or equivalent. 3 credit(s)

**AAP 367 - History of Cities II**

The city from its origins to the present day. Emphasis on European and American cities during the last five centuries. Prerequisite(s): AAD 202 or equivalent. 3 credit(s)

**AAP 377 - Site Planning and Environmental Analysis**

Lecture/seminar course. Focuses on urban planning site planning and environmental analysis as they relate to the design process. Readings, discussions, and field trips. Corequisite(s): AAP 377L. Prerequisite(s): Major and admission to upper division. 2 credit(s)

**AAP 377L - Site Planning and Design I**

Design applications of site planning, environmental analysis and landscape design techniques as they relate to a variety of topographical conditions and building types. Corequisite(s): AAP 377. Prerequisite(s): Admission to major. Note(s): Studio and field trips. 4 credit(s)

**AAP 378 - Urban Form and Design**

Form and structure of cities as related to the design process. Corequisite(s): AAP 378L. Prerequisite(s): AAP 377 and AAP 377L. Must be concurrently enrolled in AAP 378L. 1 credit(s)

**AAP 378L - Urban Planning and Design II**

Design applications of urban form and structure, exploring suburban, urban, and mixed-use models. Corequisite(s): AAP 378. Prerequisite(s): AAP 377 and AAP 377L. Must be concurrently enrolled in AAP 378. 4 credit(s)

**AAP 477 - Regional Planning Issues**

Relationships of land use, circulation, and environmental systems on regional scale. Corequisite(s): AAP 477L. Prerequisite(s): AAP 378 and AAP 378L. Must be concurrently enrolled in AAP 477L. 1 credit(s)

**AAP 477L - Urban Planning and Design III**

Regional applications of urban planning including land use, circulation, and environmental systems. Corequisite(s): AAP 477. Prerequisite(s): AAP 378 and AAP 378L. Must be concurrently enrolled in AAP 477. 4 credit(s)

**AAP 478 - Statistical and Policy Planning**

Evaluation and use of statistical models on urban planning policy in the public arena. Political and social conditions examined. Corequisite(s): AAP 478L. Prerequisite(s): AAP 477 and AAP 477L. Must be concurrently enrolled in AAP 478L. 1 credit(s)

**AAP 478L - Urban Planning and Design IV**

Urban planning applications integrating statistical input and analysis with political/social policy. Corequisite(s): AAP 478. Prerequisite(s): AAP 477 and AAP 477L. Must be concurrently enrolled in AAP 478. 4 credit(s)

**AAP 493 - Independent Study**

Independent study of a selected urban planning and design topic. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**AAP 495 - Special Topics in Urban Planning and Design**

Experimental and other topics which may be of current interest in urban planning and design. Prerequisite(s): Consent of instructor. May be repeated to a maximum of eight credits. Note(s): Topics and credits to be announced. 1-4 credit(s)

**ABS 321 - Construction Technologies I**

Basic materials, methods and detailing of landscape, building and interior construction. Corequisite(s): PHYS 151. Prerequisite(s): MATH 127 or MATH 128. Note(s): Includes effects of zoning and code requirements. 3 credit(s)

**ABS 322 - Construction Technologies II**

Investigation of building materials, assemblies, and construction delivery systems and their impact upon architectural design. Prerequisite(s): ABS 321. 3 credit(s)

**ABS 331 - Environmental Control Systems I**

Climate, energy use, and comfort as determinants of architectural form in small-scale buildings. Emphasis on architectural methods of lighting, heating, cooling, and ventilation for envelope-load dominated buildings. Prerequisite(s): PHYS 151 and AAE 280. 3 credit(s)

**ABS 332 - Environmental Control Systems II**

Design, comfort, and resource consumption implications of HVAC systems, plumbing systems, acoustics, and lighting with emphasis on sustainable methods. Prerequisite(s): ABS 331. Lab/Lecture/Studio Hours Lecture and field trips. Note(s): Same as ABS 332, AAI 332. 3 credit(s)

**ABS 341 - Structures for Architects I**

Fundamental principles of structures: Types of framing systems and their patterning in architecture, loads and force flow, vector mechanics and linear equilibrium, moments and rotational equilibrium, funicular structural systems, properties and behavior of materials under axial tension stress. An emphasis is placed on graphic static analysis of triangulated assemblies. Prerequisite(s): MATH 127 or MATH 128, and PHYS 151. Lab/Lecture/Studio Hours Lecture and field trips. Note(s): Same as ABS 541 3 credit(s)

**ABS 432 - Solar Energy Applications in Architecture**

Solar energy as a renewable energy resource for heating and cooling of buildings. Presents technical and design issues of passive and active solar energy systems, as well as solar electric power (photovoltaics). Emphasis on architectural design integration and occupant comfort. Explores design-related projects and case studies of existing solar buildings. Prerequisite(s): MATH 127 or MATH 128, and PHYS 151. 3 credit(s)

**ABS 440 - Structures for Architects II**

Continuing from structures I, this course focuses on concepts of flexure, shear and deflection, shear and moment diagrams, compression and buckling, continuity and indeterminate structures. An emphasis is placed on understanding overall building behavior, including lateral forces and lateral framing systems, soils and foundations, and essential principles of concrete construction. Prerequisite(s): ABS 341. 3 credit(s)

**ABS 441 - Advanced Topics and Experimentation in Structures**

This advanced elective class offers the opportunity to explore complex structural assemblies such as tensile membrane and shell structures, tensegrity and geodesic construction as well as high-rise structural systems. Lab activities that include experimental construction and testing of models plus advanced computer simulation of behavior reinforce the elemental principles. Prerequisite(s): ABS 341 and ABS 440 Lab/Lecture/Studio Hours Lecture and field trips. Note(s): Same as ABS 640 3 credit(s)

**ABS 443 - Interior Lighting Design**

Principles of interior lighting and daylighting. Electrical loading, evaluation of light sources for distribution, cost, and color. Prerequisite(s): MATH 127 or MATH 128, and PHYS 151. Note(s): This course is crosslisted with ABS 643. Credit at the 600-level requires additional work. 3 credit(s)



**LAND 100 - Introduction to Landscape Architecture**

Survey of landscape architecture. Includes historical examples and the theoretical, social, technical, and environmental forces that shape this profession. Especially for majors and non-majors who wish to explore this field as a career choice. Note(s): Same as AAE 100 and AAI 100. 3 credit(s)

**LAND 240 - Introduction to Horticulture**

Introductory examination of the science of horticulture as it applies to landscape architecture. 3 credit(s)

**LAND 242 - Irrigation (Construction II)**

Formerly Listed as AAL 342.

Introduces basic design of irrigation, construction and maintenance of irrigation. Sizing of components calculated and available products introduced. Prerequisite(s): Landscape major and MATH 126 and MATH 127 or MATH 128. 3 credit(s)

**LAND 255 - History of Landscape Architecture**

Formerly Listed as AAL 355.

The history of designed landscapes from ancient times to today. Environmental, social and cultural factors which influence human made landscapes. Prerequisite(s): AAD 202 or equivalent. 3 credit(s)

**LAND 258 - Xeric Plant Materials**

Identification, distribution, growth, characteristics, adaptation, and usage of xeric plants. Emphasizes bedding plants, shrubs and trees. Prerequisite(s): LAND 340. 3 credit(s)

**LAND 267 - Introductory to Digital Media**

Formerly Listed as LAND 262

Introduction to two and three-dimensional digital design processes. Note(s): Same as AAD 267. 3 credit(s)

**LAND 280 - Design Foundation II**

Formerly Listed as LAND 284, AAL 284.

Students continue their inquiry into fundamentals of design principles. Emphasis will be placed on the interconnection between concepts and applications using various programmatic, topological, and technological themes. Prerequisite(s): LAND 180 or AAD 180 or AAI 180. 6 credit(s)

**LAND 282 - Landscape Architecture Design II**

Formerly Listed as LAND 286, AAL 286.

Elements, principles and theories of landscape design with emphasis on site planning. Prerequisite(s): LAND 280, AAI 280 Note(s): Same as AAI 282. 6 credit(s)

**LAND 306 - Charrette**

A collaborative experience where students work intensively during a short period of time with a local community to solve their problems by generating and presenting multiple design solutions. Prerequisite(s): LAND 280 and LAND 282 .May be repeated to a maximum of six credits. 1-3 credit(s)

**LAND 330 - Design with Climate**

Formerly Listed as AAL 330

Explanation of the effects of climate on thermal comfort. Comprehensive coverage of basic climatic design principles. Emphasizes integrating available solar and renewable energies in design. Prerequisite(s): LAND 282. 3 credit(s)

**LAND 340 - Plants for Arid Environments**

Formerly Listed as LAND 257

An introduction to the identification, distribution, growth, characteristics, adaptation, and usage of plant materials appropriate for arid environments. Corequisite(s): LAND 330, LAND 384 and LAND 367. Prerequisite(s): LAND 240. Note(s): Field trips. 3 credit(s)

**LAND 342 - Planting and Irrigation Design**

Examines the elements, principles and theories of planting and irrigation design in landscape architecture. An emphasis will be placed on regionally appropriate techniques and strategies. Corequisite(s): LAND 386, LAND 343 and LAND 367. Prerequisite(s): LAND 340. 3 credit(s)

**LAND 343 - Site Grading for Landscape Architecture**

Formerly Listed as LAND 241, AAL 341.

An introduction to basic site surveying techniques and site grading principles. Emphasis will be placed on contour manipulation as an interface between natural and man-made topographical conditions. Corequisite(s): LAND 386 and LAND 342 and LAND 442. Prerequisite(s): MATH 126, LAND 180. 3 credit(s)

**LAND 367 - Advanced Digital Media**

Examination of advanced geometric modeling and introduction to basic parametric thinking, development of robust drawing typologies, computer generated renderings, and board compositions. Corequisite(s): LAND 384 and LAND 330 and LAND 340. Prerequisite(s): LAND 267 or AAD 267. Note(s): Same as AAD 367. 3 credit(s)

**LAND 384 - Landscape Architecture Design I**

Formerly Listed as AAL 384.

Examines the fundamental principles and theories of site analysis, site programming, and site design in landscape architecture. Corequisite(s): LAND 330, LAND 340, LAND 367. Prerequisite(s): LAND 282 or AAD 282 or AAI 282 and admission to upper division of major. 6 credit(s)

**LAND 386 - Landscape Architecture Design IV**

Landscape architectural design applications of large-scale site analysis, land use planning, and ecosystem management issued. Prerequisite(s): LAND 384. 6 credit(s)

**LAND 442 - Materials and Methods for Landscape Architecture**

Formerly Listed as AAL 442.

Examines the basic materials and methods used in landscape architecture site construction with an emphasis on sustainable materials and construction practices. Corequisite(s): LAND 343 and LAND 342 and LAND 386. Prerequisite(s): MATH 126, LAND 282. 3 credit(s)

**LAND 443 - Stormwater Management**

Lecture course addressing the design and calculations of stormwater management systems, best management practices, surface and subsurface drainage systems, basic hydrology, horizontal and vertical layout, specifications of planting plans, demolition and tree preservation plans, specifications, and erosion and sediment control design and practices. Corequisite(s): LAND 484, LAND 467 and LAND 495. Prerequisite(s): LAND 343. 3 credit(s)

**LAND 455 - Theory in Landscape Architecture**

Formerly Listed as AAL 455.

Investigates the vernacular landscape evolving from decisions made in manipulating physical and social environments. Examines various landscape types, including agricultural, residential, strip development, landfill, industrial, transportation corridors, landmarks, and centers. Emphasizes wayfinding, implied symbolism, and meaning in the landscape. Prerequisite(s): LAND 255. 3 credit(s)

**LAND 467 - Geographic Information Systems for Landscape Architecture**

Explores the fundamental uses of Geographic Information Systems in landscape architecture. Prerequisite(s): ENV 101 or GEOG 103 or GEOL 101. 3 credit(s)

**LAND 484 - Landscape Architecture Design III**

Formerly Listed as AAL 484.

Application of the elements, principles and theories of performance-based sustainable design in landscape architecture. Corequisite(s): LAND 443, LAND 467 and LAND 495. Prerequisite(s): LAND 386. 6 credit(s)

**LAND 486 - Landscape Architecture Design IV**

Formerly Listed as AAL 486.

Studio course focused on the successful completion of a capstone design project. An emphasis will be placed on the integration of design theory, principles, and applications at a level that demonstrates a synthesized understanding of research and design methodologies in landscape architecture. Corequisite(s): LAND 455 and LAND 495. Prerequisite(s): LAND 484. 6 credit(s)

### **LAND 491 - Professional Practice**

Formerly Listed as AAL 491.

Issues of professional practice, including legal requirements, ethics, management structures, malpractice claims, value engineering, contracts, and the professional job market. Prerequisite(s): Senior standing. 3 credit(s)

### **LAND 493 - Independent Study**

Formerly Listed as AAL 493.

Independent study of a selected landscape architecture topic. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

### **LAND 495 - Special Topics in Landscape Architecture**

Formerly Listed as AAL 495.

Experimental and other topics which may be of current interest in landscape architecture. Prerequisite(s): Consent of instructor. May be repeated to a maximum of eight credits. Note(s): Topics and credits to be announced. 1-4 credit(s)

### **LAND 499 - Sustainable Design for the 21st Century City**

An integrative approach to human and natural systems in urban areas. Ecological principles, sustainable design, and human-ecosystem interaction will be examined at a variety of scales. Sustainable design concepts will be linked to design and planning principles. Prerequisite(s): Senior standing. 3 credit(s)

## **Department of Art**

### ***Purpose and Focus***

The Department of Art offers its students an education in the visual arts as an integral part of a comprehensive educational experience. Our degree programs offer intense, professional education in the aesthetics and theories of the visual arts. Students will be trained in the skills and intellectual awareness that are the basis for a future of creative and professional achievement in the visual arts.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
National Association of Schools of Art and Design

### ***Undergraduate Majors***

Art History — Bachelor of Arts

Art — Bachelor of Arts with an area of concentration

Art — Bachelor of Fine Arts with an area of concentration

Graphic Design & Media — Bachelor of Science

### ***Areas of Studio Art Concentrations***

#### ***Painting/Drawing/Printmaking***

Offers the student training in the principles, methods, and materials of painting, drawing and printmaking within the context of subject matter.

#### ***Photography***

Offers the student a comparative study of the skills and theories in contemporary art photography, black and white film and digital color.

#### ***Sculptural Practices***

Offers the student the techniques and concepts needed for the development of three-dimensional visual objects and situations.

### ***Admission to the Studio Art & Art History***

#### ***BA Degree Programs***

Minimum University GPA: 2.30, and maintain a minimum 2.70 in art courses.

#### ***Admission to the Studio Art BFA Degree Program***

**Admission Policies:** Minimum University GPA: 2.30 AND attain and maintain a 3.00 GPA in all departmental courses throughout the program.

All declared art majors must satisfactorily complete the following core program of introductory-level courses before declaring an intent to pursue a B.F.A. degree in an area of concentration within the program: ART 101, ART 107, ART 108, ART 156, ART 260, ART 261, ART 266.

After completion of 59 to 74 credits, a portfolio review by the full department faculty is required for acceptance into the B.F.A. program. Accepted students will then select a committee of three full-time Art faculty members to guide and evaluate their progress through the program.

Students who do not meet the minimum GPA may be admitted on a probationary status at the discretion of the Art faculty.

## ***Admission to the Graphic Design & Media Major***

Minimum GPA: 2.70

**Admission Policies:** Admission to the Graphic Design & Media program is based upon a panel review of:

1. Successful completion of all required courses in lower-division art department studies or the equivalent: ART 101, ART 107, ART 108, ART 156, ART 260, and ART 261. ART 266 must be completed at the earliest opportunity but may be taken after formal admission to the program. Students applying to the program must have achieved a minimum 2.7 GPA.
2. Completed BS in Graphic Design & Media Program Application
3. A portfolio of selected works
4. Designs and process book presenting applicant's solution to the faculty review committee's Call for Creative Response, a unique design brief set annually. The application deadline is March 15 of each year or as announced for enrollment in program courses the following fall semester. Incomplete applications will not be accepted. Admitted students must successfully pass annual portfolio juries and maintain a minimum 2.7 GPA to continue in the program.

### ***Department Policies***

**Academic Policies:** Studio courses may not be audited. Advancement to upper-division courses is dependent on acceptable performance, as determined by the instructor, in lower-division courses.

Courses must be taken in sequential numerical order in each discipline, starting with lower-division, intermediate, and then advanced level-courses

**Transfer Policies BA in Studio Art and Art History, BFA in Studio Art:** Students wishing to transfer credits toward a B.A. or B.F.A. degree in art must schedule a meeting with the CFA Advising to determine which courses are transferable.

**Transfer Policies in BS Graphic Design & Media:** Transfer students applying for transfer credit in upper-division courses in the program from other institutions must submit the following to be considered for admission based upon faculty review:

1. Portfolio of design and media work.
2. Completed BS in Graphic Design & Media Program Application.
3. Designs and process book presenting applicant's solution to the portfolio review committee's Call for Creative Response, a unique design brief set annually.
4. Official transcripts from other institutions previously attended. While the university accepts credits transferred from other accredited institutions, transfer credits are not applied to the BS in Graphic Design & Media program until course descriptions and coursework portfolios are reviewed and accepted by program faculty. Transfer course work must be equivalent in both content and level of offering.

### ***Advising***

All new students will initially meet with an advisor in the College of Fine Arts' Advising Center and will subsequently work with an academic advisor from the center during their freshmen and sophomore years. At the beginning of their junior year, students

should request to meet with an Art faculty member who will act as their advisor and assist them with their academic plans through graduation.

## ***Art History Major- Bachelor of Arts (BA)***

Please see the UNLV College of Fine Arts web page at <http://www.unlv.edu/finearts> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program Accreditation - National Association of Schools of Art and Design [nasad.arts-accredit.org/](http://nasad.arts-accredit.org/)

### ***Learning Outcomes***

1. Identify major works of art from the time periods and cultures represented in courses taken this semester.
2. Articulate the formal elements (e.g. line, color, composition, perspective, etc.) of works of art.
3. Identify differences and similarities between works of art from the same or different historical moments.
4. Apply theoretical concepts to works of art.
5. Learn more about an historical period through studying works of art and artists from that period.
6. Knowledgeably discuss art historical styles and movements.
7. Articulate and respond to unfamiliar works of art based on skills developed studying known works.
8. Understand career routes for art historians and prepare for postgraduate academic, internship, or job opportunities.

### ***University Graduation Requirements***

- Please see Graduation Policies for complete information
- Art History Degree Requirements ..... Total 120 Credits
- Offers the students program of study of cultural heritage in the visual arts. Prepares a student for a career or graduate studies in art history and related areas.
- (See note 1)
- General Education Requirements ..... Subtotal: 37-40
- First-Year Seminar ..... Credits: 2-3
- English Composition ..... Credits: 6
- ENG 101 - Composition I and
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3
- Constitutions ..... Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society or
  - PSC 101 - Introduction to American Politics
- Mathematics ..... Credits: 3
- Distribution Requirements ..... Credits: 19
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
    - Automatically satisfied by Major requirements
  - Social Science: 9 credits

- One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in Art History Subtotal: ..... 60 Credits

Art Core Requirements ..... Credits: 18

- ART 101 - Drawing I
- ART 107 - Design Fundamentals I
- ART 108 - Design Fundamentals II-3D
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III

Art History Requirements ..... Credits: 30

Select 10 of the following:

- ART 309 - Gallery Practices (see note 2 below)
- ART 434 - Topics in Contemporary Art
- ART 461 - The History of Ancient Art
- ART 462 - History of Medieval Art
- ART 463 - History of Early Renaissance Art
- ART 464 - High Renaissance and Mannerist Art
- ART 465 - History of Northern Renaissance Art
- ART 466\* - History of Renaissance and Baroque Architecture
- ART 467 - History of Southern Baroque Art
- ART 468 - History of Northern Baroque Art
- ART 469 - History of Eighteenth-Century Art I
- ART 470 - History of Eighteenth-Century Art II
- ART 472\* - History of Art in the Nineteenth Century
- ART 473 - Twentieth Century Art
- ART 474 - History of American Art
- ART 475 - History of Photography
- ART 477\* - Art Since 1945
- ART 479 - Artistic Traditions of the Southwest
- ART 480\* - Art of China
- ART 481\* - Art of Japan
- ART 489 - Art History Internship
- ART 493 - Individual Study in Art History (see note 3 below)
- ART 495 - Special Topics in Art History

Foreign Language Requirement ..... Credits: 12

Two years of the same foreign language

Electives ..... Credits: 20-23

It is recommended students satisfy electives with humanities courses.

Total Credits: ..... 120

## Notes

1. Of the 120 credits required, 42 of these credits must be in upper-division course work (300-400 level).
2. ART 309 may be taken for Art History credit only.
3. ART 493 may be taken only after completing at least one 400-level art history course with a B or better

## Art Major- Bachelor of Arts (BA)

Please see the UNLV College of Fine Arts web page at <http://www.unlv.edu/finearts> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program Accreditation - National Association of Schools of Art and Design [nasad.arts-accredit.org/](http://nasad.arts-accredit.org/)

## Learning Objectives

1. Demonstrate functional levels of drawing skills with varied media.
2. Recognize and be able to interpret major works of art pertaining to the art history courses taken.
3. Demonstrate working knowledge of the elements and principles of students' chosen area of concentration
4. Articulate and critically respond to both familiar and unfamiliar works of art through critical dialogue.
5. Understand the function of presentation and/or the exhibition process of personal works in public gallery or other cultural venue.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Art Degree Requirements ..... Total 120 Credits  
(See note 1 below)

General Education Requirements ..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or  
• PSC 101 - Introduction to American Politics

Mathematics ..... Credits: 3

Distribution Requirements ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Art Core Requirements ..... Credits: 21

Art Core Requirements required for all concentrations



- ART 101 - Drawing I
- ART 107 - Design Fundamentals I
- ART 108 - Design Fundamentals II-3D
- ART 156 - Design Fundamentals III
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III

Major Degree Requirements - BA in Art - Painting/Drawing/  
Printmaking Concentration .....Subtotal 40 Credits  
Additional Art Core Requirements.....Total Credits 3

- ART 477\* - Art Since 1945

Studio Art Requirement ..... Credits: 12

- ART 102 - Drawing II
- ART 201 - Life Drawing I
- ART 221 - Beginning Printmaking: Intaglio

or

- ART 222 - Beginning Printmaking: Lithography
- ART 231 - Painting I

Studio courses upper division electives..... Credits: 9

- ART 332 - Intermediate Painting
- ART 401 - Advanced Drawing
- ART 421 - Advanced Printmaking: Intaglio
- ART 422 - Advanced Printmaking: Lithography
- ART 432 - Advanced Painting

Art History Requirements ..... Credits: 6

Select two of the following:

- ART 434 - Topics in Contemporary Art
- ART 461 - The History of Ancient Art
- ART 462 - History of Medieval Art
- ART 463 - History of Early Renaissance Art
- ART 464 - High Renaissance and Mannerist Art
- ART 465 - History of Northern Renaissance Art
- ART 466\* - History of Renaissance and Baroque Architecture
- ART 467 - History of Southern Baroque Art
- ART 468 - History of Northern Baroque Art
- ART 469 - History of Eighteenth-Century Art I
- ART 470 - History of Eighteenth-Century Art II
- ART 472\* - History of Art in the Nineteenth Century
- ART 473 - Twentieth Century Art
- ART 474 - History of American Art
- ART 475 - History of Photography
- ART 479 - Artistic Traditions of the Southwest
- ART 480\* - Art of China
- ART 481\* - Art of Japan
- ART 493 - Individual Study in Art History (see note 2 below)
- ART 495 - Special Topics in Art History

(see note 3 below)

BFA Project/Exhibition ..... Credits: 6

- ART 496 - Bachelor of Fine Arts Seminar
- ART 497 - Bachelor of Fine Arts Project

Art upper division electives Credits: 4 Selected in consultation with  
BFA Committee Chair

Electives..... Credits: 19-32

Major Degree Requirements - BA in Art -

Photography Concentration .....Subtotal: 36 Credits

Studio Art Requirements..... Credits: 30

- ART 135 - Photography I
- ART 216 - Sculpture I

- ART 337 - Intermediate Black and White Photography
- ART 342 - Digital Photography
- ART 347 - Beginning Commercial Photography
- ART 436 - Alternative Photographic Processes
- ART 442 - Intermedia
- ART 447 - Advanced Studio Practice: Photography  
(Must be repeated for a minimum of six credits)
- ART 490 - Studio Internship

Art History Requirements ..... Credits: 6

- ART 475 - History of Photography
- ART 477\* - Art Since 1945

(see note 3 below)

Electives..... Credits: 23-26

Major Degree Requirements - BA in Art -

Sculpture Concentration .....Subtotal: 30 Credits

Studio Art Requirements..... Credits: 24

- ART 102 - Drawing II
- ART 135 - Photography I
- ART 201 - Life Drawing I
- ART 211 - Beginning Ceramics I

or

- ART 212 - Beginning Ceramics II
- ART 216 - Sculpture I
- ART 317 - Intermediate Sculpture
- ART 409 - Advanced Gallery Practices I
- ART 416 - Advanced Sculpture

Art History Requirements ..... Credits: 6

Select two of the following:

- ART 461 - The History of Ancient Art
- ART 462 - History of Medieval Art
- ART 463 - History of Early Renaissance Art
- ART 464 - High Renaissance and Mannerist Art
- ART 465 - History of Northern Renaissance Art
- ART 466\* - History of Renaissance and Baroque Architecture
- ART 467 - History of Southern Baroque Art
- ART 468 - History of Northern Baroque Art
- ART 469 - History of Eighteenth-Century Art I
- ART 470 - History of Eighteenth-Century Art II
- ART 472\* - History of Art in the Nineteenth Century
- ART 473 - Twentieth Century Art
- ART 474 - History of American Art
- ART 475 - History of Photography
- ART 477\* - Art Since 1945
- ART 479 - Artistic Traditions of the Southwest
- ART 480\* - Art of China
- ART 481\* - Art of Japan
- ART 493 - Individual Study in Art History (see note 2 below)
- ART 495 - Special Topics in Art History

(see note 3 below)

Electives..... Credits: 29-32

Total Credits: ..... 120

## Notes

1. Of the 120 credits required, 42 of these credits must be in upper-division course work (300-400), including courses taken in the major.
2. ART 493 may be taken only after completing at least one 400-level art history course with a B or better.
3. ART 309 may not be taken for Art History credit by Studio Majors.

## **Art Major (BFA) — Painting/Drawing, Printmaking/Photography, or Sculpture Concentration**

### **Art Major- Bachelor of Fine Arts (BFA)**

Please see the UNLV College of Fine Arts web page at <http://www.unlv.edu/finearts> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program Accreditation - National Association of Schools of Art and Design  
[nasad.arts-accredit.org/](http://nasad.arts-accredit.org/)

### **Learning Objectives**

1. Create a body of work as a portfolio including artist statement and resume to submit to graduate schools and to similar creative venues.
2. Continue developing the creative research activities, gain knowledge in current and historical issues in art practice and theory.
3. Develop proficiency in multi level range of processes within one's area of discipline.
4. To be able to articulate ideas/objects within context of art in practice a theory
5. Exhibit their creative work nationally/internationally and to continue and maintain clarity about their research.
6. To sustain themselves personally, economically and professionally.

### **University Graduation Requirements**

- Please see Graduation Policies for complete information.

Degree Requirements - BFA in Art Total:..... 132 Credits

The requirements for each of the B.F.A. concentrations are identical to the requirements for the corresponding BA concentration .

(See note 1-3 below)

With the addition of the following requirements:

Art History ..... Credits: 3

- ART 477\* - Art Since 1945

(see note 4 below)

Bachelor of Arts Seminar ..... Credits: 3

- ART 496 - Bachelor of Fine Arts Seminar

Bachelor of Arts Project..... Credits: 3

- ART 497 - Bachelor of Fine Arts Project

Upper division electives selected in consultation with student's BFA Committee Chair.....Credits 3 (Must take ART 477\* if not already taken in BA credits)

- ART 480\* - Art of China
- ART 481\* - Art of Japan
- ART 493 - Individual Study in Art History

Total Credits: ..... 132

### **Notes**

1. Candidates for this program will be reviewed, by the Art Faculty at the end of the spring semester. The application deadline is the 2nd Friday in April. Applicants should have completed 110 credits towards their B.A. in an Art Concentration prior to the following fall semester.
2. Applicants must have a 3.0 GPA in Art in order to apply.
3. Upon being accepted for the B.F.A. every student must choose and

be accepted by three tenured or tenure track faculty in the Art Department. These three faculty compose the B.F.A. Committee and will mentor every student, meeting with them frequently for purposes of critique, both individually and as a committee.

4. ART 493 may be taken only after completing at least one 400-level art history course with a B or better.

## **Graphic Design and Media Major- Bachelor of Science (BS)**

Please see the UNLV College of Fine Arts web page at <http://www.unlv.edu/finearts> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### **Learning Objectives**

Upon completion of the BS in Graphic Design & Media, students will be able to:

1. Demonstrate fluency in technology and state of the art software applications used in design professions.
2. Employ a workflow strategy appropriate to the technical and creative needs of a given context.
3. Analyze and critically respond to examples of design verbally and in written form.
4. Apply research to identify and focus design problems, in the context of a client and audience relationship.
5. Apply multiple ideation and analytical strategies throughout the design process.
6. Formulate original and appropriate design responses to observed conditions or cultural contexts.
7. Assemble a competitive portfolio of quality works of design and media appropriate to the student's focus and career goals. The portfolio works will demonstrate a range of creative strategies and original solutions effective within identified design, communication, and social contexts.

### **University Graduation Requirements**

- Please see Graduation Policies for complete information

General Education Requirements ..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ..... ENG 101 - Composition I and

- ..... ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 19

Please see Distribution Requirement for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits (see note 1)
  - One course each from three different fields

- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

#### Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required (see note 2)

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: [facultysenate.unlv.edu/students](http://facultysenate.unlv.edu/students)

#### Major Requirements - BS in Graphic Design and

Media ..... Subtotal: 85-86

- COM 101 - Oral Communication

Foundation Requirements..... Credits: 21

- ART 101 - Drawing I
- ART 107 - Design Fundamentals I
- ART 108 - Design Fundamentals II-3D
- ART 156 - Design Fundamentals III
- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III

Design Program Requirements..... Credits: 36

- GRC 250 - Design & Media Studio I
- GRC 320 - Design Methods & Research
- GRC 350 - Design Ideation & Process
- GRC 360 - Typography & Letterforms
- GRC 365 - Interface and Web Design
- GRC 375 - Modeling & Animation
- GRC 380 - Design & Media Studio II
- GRC 420 - Design & Media Studio III
- GRC 460 - Advanced Typography
- GRC 470 - Advanced Graphic Design

ART or GRC area electives..... Credits: 6

Capstone Requirement..... Credits: 4

Art History Requirements ..... Credits: 6

Select 2 of the following:

- ART 434 - Topics in Contemporary Art
- ART 462 - History of Medieval Art
- ART 463 - History of Early Renaissance Art
- ART 464 - High Renaissance and Mannerist Art
- ART 465 - History of Northern Renaissance Art
- ART 466\* - History of Renaissance and Baroque Architecture
- ART 467 - History of Southern Baroque Art
- ART 468 - History of Northern Baroque Art
- ART 469 - History of Eighteenth-Century Art I
- ART 470 - History of Eighteenth-Century Art II
- ART 472\* - History of Art in the Nineteenth Century
- ART 473 - Twentieth Century Art
- ART 474 - History of American Art
- ART 475 - History of Photography
- ART 476 - Topics in Performance and Media Art
- ART 477\* - Art Since 1945
- ART 479 - Artistic Traditions of the Southwest
- ART 480\* - Art of China

- ART 481\* - Art of Japan
- ART 485 - Contemporary Artists in Context
- ART 493 - Individual Study in Art History (see note 3 below)
- ART 495 - Special Topics in Art History

Electives..... Credits: 12-13

Credits to be selected in consultation with advisor.

Total Credits: ..... 120

Of the 120 credits required, 42 of these must be in upper-division course work (300-400).

#### Notes:

1. Social Science: One course each from three different fields for a total of nine credits. Courses used to satisfy the Constitutions requirement may not be used to meet Social Sciences distribution requirements. AAS and ANTH constitute one field.
2. Students must take ART 261 to satisfy the international requirement.
3. ART 493 may be taken only after completing at least one 400-level art history course with a B or better.

### Minor

#### Art History Minor

Courses Include ..... Total Credits: 21

- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III

and 12 credits in upper-division (400-level) art history courses.

### Art

#### ART 101 - Drawing I

Basic course designed to offer a disciplined foundation in drawing concepts based on visual observation. Note(s): Six hours studio. 3 credit(s)

#### ART 102 - Drawing II

Counterpart of ART 101. Designed to further develop formal elements and principles of drawing. Emphasis on color. Prerequisite(s): ART 101. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

#### ART 107 - Design Fundamentals I

Art fundamentals designed to develop a visual language. Emphasis on the application of the elements and principles of pictorial structure: point, line, shape, plane, space, and color. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

#### ART 108 - Design Fundamentals II-3D

Study of basic design elements, including point, line, shape, and form, with media experience in both two and three dimensions. 6.0 hours activity. Note(s): Special fee required. 3 credit(s)

#### ART 135 - Photography I

Development of a fine arts approach to black and white photography at an introductory level, exploring the aesthetic potential of photography as an expressive art form. Basic technical skills include using a manual 35mm camera, developing film and printing black and white photographs. 3 credit(s)

#### ART 156 - Design Fundamentals III

Introductory concepts, vocabulary and practical application of computer software used in visual art and design. Studio projects exploring 2D, 3D, interactive, and time-based media. 3 credit(s)

#### ART 160 - Art Appreciation

Introduction to art as a visual experience. Media, formal properties, and the correlation of art with the ideas of society for which it was made. May not be taken by art majors. 3 credit(s)

**ART 201 - Life Drawing I**

Structural analysis of the figure, as it relates to form and composition. Prerequisite(s): ART 101 and ART 102. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 211 - Beginning Ceramics I**

Techniques in handbuilding, mold casting, slip casting, glaze calculation, and history as it applies to assigned problems, with emphasis on sculptural development of form. Prerequisite(s): ART 108. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 212 - Beginning Ceramics II**

Techniques in wheel throwing, clay body calculation, kiln design, and history as it applies to assigned problems, with emphasis on development of sculptural and utilitarian forms. Prerequisite(s): ART 108. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 216 - Sculpture I**

Introduction to techniques and concepts in contemporary sculpture. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 221 - Beginning Printmaking: Intaglio**

Introduction to etching, dry point, aquatint, and other techniques related to metal plate printmaking. Emphasis on the creative use of materials and techniques. Prerequisite(s): ART 101 and ART 107, and either ART 102 or ART 135. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 222 - Beginning Printmaking: Lithography**

Examination of materials and techniques for both stone and plate lithography for the artist. Explores black and white printing as well as color and photo generated images. Prerequisite(s): ART 101 and ART 107, and either ART 102 or ART 135. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 223 - Beginning Printmaking: Serigraphy**

Introduction to the basic techniques of silk-screen printing with emphasis on its creative potential. Prerequisite(s): ART 101 and ART 107, and either ART 102 or ART 135. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 231 - Painting I**

Introduction to painting in various media, with emphasis on color, form, and composition. Prerequisite(s): ART 101 and ART 107. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 243 - Digital Imaging I**

Introduction to the concepts and practices of computer imaging and use of related media with emphasis on creative applications of digital technology. Prerequisite(s): ART 101 and ART 107. 3 credit(s)

**ART 260 - Survey of Art History I**

General survey of western art history covering the period from the earliest cave art to the Renaissance. 3 credit(s)

**ART 261 - Survey of Art History II**

General survey of western art history from the Renaissance to modern times. Note(s): Satisfies International and Fine Arts Requirement. 3 credit(s)

**ART 266 - Survey of Art History III**

Non-Western Art History. Introduction to the arts of Asia, Islam, Africa, Pre-Columbian America, and Oceania. 3 credit(s)

**ART 309 - Gallery Practices**

Practices and ethics of operating an art gallery. Prerequisite(s): ART 260 and ART 261. Lab/Lecture/Studio Hours Two hours of class and four hours per week of laboratory experience working with the curator of exhibitions. 3 credit(s)

**ART 317 - Intermediate Sculpture**

Traditional as well as non-traditional materials, techniques, and approaches involved in the creation of three-dimensional works of art. Prerequisite(s): ART 216. 3 credit(s)

**ART 332 - Intermediate Painting**

Study of the various uses of pictorial space in Western art. Key periods explored through studio practice. Prerequisite(s): ART 231. Lab/Lecture/Studio Hours Six hours studio. 3 credit(s)

**ART 337 - Intermediate Black and White Photography**

Investigation of the zone system, large format cameras, and studio lighting. Emphasis placed on the creative possibilities of black and white photography. Prerequisite(s): ART 135. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 339 - Beginning Color Photography**

Introduction to color photography with emphasis on exposure, color printing, studio lighting methods, and fabricated imagery. Prerequisite(s): ART 342. 3 credit(s)

**ART 342 - Digital Photography**

Investigates using the computer as a tool to expand a student's visual expression of themes begun in traditional photography. Emphasis on conceptual development of ideas. Prerequisite(s): ART 156. 3 credit(s)

**ART 344 - Intermediate Digital Imaging**

Intermediate level course in digital imaging with emphasis on the conceptual and creative potential of the technology within a fine arts context. Prerequisite(s): ART 243. 3 credit(s)

**ART 347 - Beginning Commercial Photography**

Topics include commercial light techniques, portraiture, editorial, event and product shooting. Prerequisite(s): ART 135 or ART 342. May be repeated to a maximum of six credits. 3 credit(s)

**ART 401 - Advanced Drawing**

Develops independent self-expression in a broad range of media and concepts. Prerequisite(s): ART 201. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. 3 credit(s)

**ART 402 - Life Drawing Workshop**

Offered to encourage students in all areas of art to continue drawing on a more advanced level. Prerequisite(s): ART 101. May be repeated for a maximum of 12 credits. Lab/Lecture/Studio Hours Two hours studio. 1 credit(s)

**ART 404 - Art in Public Places**

Theoretical and practical investigation of art in public places. Concentration on collaborative process between artists, designers, architects and communities. Includes site considerations, grant writing, proposal preparation and presentation, budgeting, legal aspects, publicity and report development and documentation. Prerequisite(s): Three credits in upper-division studio, three credits in Art History. May be repeated for a maximum of 12 credits. Note(s): This course is crosslisted with ART 604. Credit at the 600-level requires additional work. 3 credit(s)

**ART 409 - Advanced Gallery Practices I**

Advanced course in the business and operational aspects of an art gallery. Prerequisite(s): ART 309. Lab/Lecture/Studio Hours Two hours of class and four hours per week of laboratory experience working with the curator of exhibitions. 3 credit(s)

**ART 410 - Advanced Gallery Practices II**

Advanced course in catalog writing and critical writing as they relate to art galleries and museums. Prerequisite(s): ART 309 and ART 409. Lab/Lecture/Studio Hours Two hours of class and four hours per week of laboratory experience working with the curator of exhibitions. 3 credit(s)



**ART 411 - Advanced Ceramics I**

Concentration of ceramic techniques emphasizing sculptural aspects. Involves the individual pursuit of the sculptural possibilities with the ceramic media. Prerequisite(s): ART 211. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Discussion and Six hours studio. 3 credit(s)

**ART 412 - Advanced Ceramics II**

Concentration on ceramic techniques emphasizing pottery wheel aspects. Involves the individual pursuit of the functional and nonfunctional possibilities with the ceramic media. Prerequisite(s): ART 212. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Discussion and Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 416 - Advanced Sculpture**

Advanced work in a selected area of interest. Emphasis on contemporary art concepts. Prerequisite(s): ART 317. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Discussion and Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 419 - Foundry Sculpture**

Techniques and concepts of traditional and contemporary cast metal sculpture. Prerequisite(s): ART 216. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 421 - Advanced Printmaking: Intaglio**

Emphasis on individual development of the intaglio print. Innovative techniques presented. Prerequisite(s): ART 221. May be repeated to a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 422 - Advanced Printmaking: Lithography**

Examination of materials and advanced techniques for both stone and plate lithography for the artist. Technical content varies from semester to semester and from student to student. Prerequisite(s): ART 222. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 423 - Advanced Printmaking: Serigraphy**

Emphasis on individual development of the silk-screen print. Innovative techniques presented. Prerequisite(s): ART 223. May be repeated to a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): This course is crosslisted with ART 655C. Credit at the 600-level requires additional work. Special fee required. 3 credit(s)

**ART 425 - Advanced Studio Practice**

Covers the discipline of studio practice as a visual language within the contemporary art-world. Variations of decision-making systems will be used as devices for creating objects and setting conditions for event based artwork. Students will make objects resulting from research exploration and critique-generated discussion. Prerequisite(s): ART 101, ART 102, and ART 108. May be repeated to a maximum of eighteen credits. 3 credit(s)

**ART 427 - Water-based Media**

Comprehensive problems in painting with transparent and opaque watercolors. Prerequisite(s): ART 101 and ART 107. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 428 - Entertainment and Fine Arts Law I**

Protection of works created by entertainers and artists, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special consideration to film and music industries. 3 credit(s)

**ART 429 - Entertainment and Fine Arts Law II**

Unique legal issues in the fields of live stage performance, theater, music, television and film, the art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems. Prerequisite(s): ART 428 or DAN 421A or DAN 421B or THTR 421A or THTR 421B. 3 credit(s)

**ART 432 - Advanced Painting**

Emphasizes individual development in painting and encourages experiments with new techniques. Prerequisite(s): ART 332. May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): This course is crosslisted with ART 620. Credit at the 600-level requires additional work. Special fee required. 3 credit(s)

**ART 434 - Topics in Contemporary Art**

Provides an in-depth study of major developments in art since 1960, approaching these developments in their social historical, art historical, and art critical contexts. Prerequisite(s): ART 261. May be repeated to a maximum of nine credits. 3 credit(s)

**ART 436 - Alternative Photographic Processes**

Critical investigative approach to creative photography using alternative non-silver and silver processes. Emphasis on following methods: cyanotype, Van Dyke Brown, Diazo, Kwik print, photoetching, photo silk screen, gum print, Polaroid transfer, salt print, laser copy transfer, and mural printing. Prerequisite(s): ART 135 or ART 342. May be repeated to a maximum of 18 credits. Note(s): Special fee required. 3 credit(s)

**ART 437 - Advanced Black and White Photography**

Advanced investigation of varied black and white photographic techniques, bookmaking, and mural printing. Emphasis on individual development. Prerequisite(s): ART 337. May be repeated to a maximum of 18 credits. Lab/Lecture/Studio Hours Six hour studio. Note(s): Special fee required. 3 credit(s)

**ART 439 - Color Photography II**

Practical, analytical, and critical approach to color photography with emphasis on exposure, printing, studio lighting methods, and investigation of imagery relating to historical and contemporary trends. Prerequisite(s): ART 339. May be repeated to a maximum of 18 credits. Note(s): Special fee required. 3 credit(s)

**ART 442 - Intermedia**

Structured to investigate multimedia concepts — installations, two- and three-dimensional constructions, photography, print process, video, and film. Prerequisite(s): ART 135 or ART 342 May be repeated for a maximum of 18 credits. Lab/Lecture/Studio Hours Six hours studio. Note(s): Special fee required. 3 credit(s)

**ART 443 - Senior Portfolio**

Computer graphics in design and execution of digital interactive and multimedia forms. Among other studio-based projects, students create an interactive digital version of their portfolio. Applicable for art students in all areas of emphasis. Prerequisite(s): GRC 250 and GRC 360. 3 credit(s)

**ART 447 - Advanced Studio Practice: Photography**

Students will engage in personal exploration and experimentation in search of individual form and content within the broad realms of photography, choosing to primarily work in: Black and White, Digital, Alternative Processes or Intermedia. At the end of the semester the student's work will be presented in a group exhibition. Prerequisite(s): ART 337 and ART 342. May be repeated to a maximum of 12 credits. 3 credit(s)

**ART 461 - The History of Ancient Art**

History of art in the Near Eastern civilizations, Greece, and Rome. Prerequisite(s): ART 260 and ART 261. 3 credit(s)

**ART 462 - History of Medieval Art**

History of art from the fall of the Roman Empire to the Trecento (fourteenth century). Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 662. Credit at the 600-level requires additional work. 3 credit(s)

**ART 463 - History of Early Renaissance Art**

History of art from the late Gothic through the fifteenth century in Italy. Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 663. Credit at the 600-level requires additional work. 3 credit(s)

**ART 464 - High Renaissance and Mannerist Art**

History of art of the sixteenth century in Italy and Spain. Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 664. Credit at the 600-level requires additional work 3 credit(s)

**ART 465 - History of Northern Renaissance Art**

History of Renaissance art in the countries north of the Alps. Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 665. Credit at the 600-level requires additional work. 3 credit(s)

**ART 466\* - History of Renaissance and Baroque Architecture**

Architecture of Europe from 1400 to 1800. Prerequisite(s): ART 260 and ART 261, or AAD 101 and AAD 102. Note(s): Same as AAE 458. This course is crosslisted with ART 666. Credit at the 600-level requires additional work. 3 credit(s)

**ART 467 - History of Southern Baroque Art**

History of art of the seventeenth century in Italy and Spain. Prerequisite(s): ART 260, 261, 266; ENG102 ; PHIL 102, HIST 100. 3 credit(s)

**ART 468 - History of Northern Baroque Art**

History of art during the seventeenth century in Flanders, Holland, and France. Prerequisite(s): ART 260 and ART 261. 3 credit(s)

**ART 469 - History of Eighteenth-Century Art I**

Eighteenth-century art in France. Prerequisite(s): ART 260 and ART 261. 3 credit(s)

**ART 470 - History of Eighteenth-Century Art II**

Eighteenth-century art in Italy, England, Germany and Spain. Prerequisite(s): ART 260 and ART 261. 3 credit(s)

**ART 472\* - History of Art in the Nineteenth Century**

History of European art in the nineteenth century. Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 672. Credit at the 600-level requires additional work. 3 credit(s)

**ART 473 - Twentieth Century Art**

History of European art in the twentieth century. Prerequisite(s): ART 260 and ART 261. Note(s): Satisfies International Requirement. This course is crosslisted with ART 673. Credit at the 600-level requires additional work. 3 credit(s)

**ART 474 - History of American Art**

History of art in the United States from the seventeenth century until World War II. Prerequisite(s): ART 260 and ART 261. Note(s): This course is crosslisted with ART 674. Credit at the 600-level requires additional work. 3 credit(s)

**ART 475 - History of Photography**

Development of photography as an aesthetic medium from its invention to the present time in America, France, England, etc. Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. 3 credit(s)

**ART 476 - Topics in Performance and Media Art**

This course provides a kind of "alternative" history of contemporary art, focusing on performance, media, participatory, and action-based art from the early twentieth century to the present rather than traditional art forms such as painting, drawing, and sculpture. Corequisite(s): ART 477 or ART 473 may be taken simultaneously to count as prerequisite. Prerequisite(s): ART 260, ART 261; ART 477 or ART 473. Note(s): Same as ART 676. This course is crosslisted with ART 676. Credit at the 600-level requires additional work. 3 credit(s)

**ART 477\* - Art Since 1945**

Study of painting, sculpture, and architecture since World War II and of the critical and cultural milieu in which these art forms developed. Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. Note(s): This course is crosslisted with ART 677\*. Credit at the 600-level requires additional work. 3 credit(s)

**ART 479 - Artistic Traditions of the Southwest**

Surveys Native American, Hispanic, and Anglo artistic traditions of Southwest from Anasazi to contemporary. Major media considered from pottery, basketmaking, weaving to contemporary painting, sculpture, photography, and architecture. Prerequisite(s): ART 260 and ART 261. 3 credit(s)

**ART 480\* - Art of China**

Surveys the history of the art and architecture of China. Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. Note(s): This course is crosslisted with ART 680\*. Credit at the 600-level requires additional work. 3 credit(s)

**ART 481\* - Art of Japan**

Surveys the art and architecture of Japan from prehistoric to the Meiji Restoration. Inter-relationships between Japanese and western art briefly covered. Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. Note(s): Satisfies International Requirement. This course is crosslisted with ART 681\*. Credit at the 600-level requires additional work. 3 credit(s)

**ART 485 - Contemporary Artists in Context**

This art history course corresponds to the weekly Visiting Artist lecture series hosted by the Art Department. In a weekly seminar, students will examine the work of visiting artists in greater depth through reading reviews, articles, and essays, and will consider larger art world movements or trends exemplified by the work of visiting artists. Corequisite(s): ART 477 or ART 473 may be taken simultaneously to count as prerequisite. Prerequisite(s): ART 260, ART 261; ART 477 or ART 473. 3 credit(s)

**ART 489 - Art History Internship**

Supervised on-site experience involving aspects of art history and gallery practices. May not be used by studio majors to fulfill art history requirements. Prerequisite(s): ART 309. 3-6 credit(s)

**ART 490 - Studio Internship**

Supervised on-site experience involving aspects of studio arts. May not be used by art history majors to fulfill studio requirements. Prerequisite(s): Six credits upper-division studio work and consent of instructor from the discipline requested. May be repeated up to a maximum of six credits. 3 credit(s)

**ART 492 - Individual Studies**

Individual creative work in any studio discipline. Before registering, the student must secure consent in writing from the instructor directing the study. Prerequisite(s): Four upper-division studio classes in the discipline requested. May be repeated to a maximum of 18 credits. 1-3 credit(s)

**ART 493 - Individual Study in Art History**

Individual scholarly studies in any field of art history. Before registering, the student must secure consent in writing from the instructor directing the study. Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. Two upper-division art history courses with a grade of B or better. Note(s): ART 493 may be taken only after completing at least one 400-level art history course with a B or better. 1-3 credit(s)

**ART 495 - Special Topics in Art History**

Prerequisite(s): ART 260 and ART 261, 266; ENG 102; PHIL 102, HIST 100. May be repeated to a maximum of 12 credits. 3 credit(s)

**ART 496 - Bachelor of Fine Arts Seminar**

Practical preparation to enter into the professional art world. Topics covered include building a body of work, documentation of artworks, presentation of public slide talk, marketing and exhibiting artist statements, resumes, grants, and job possibilities. Prerequisite(s): Consent of instructor. 3 credit(s)

**ART 497 - Bachelor of Fine Arts Project**

Preparation of a project or body of work to be exhibited in the B.F.A. Senior Exhibition during the Spring Semester. Prerequisite(s): ART 496. 3 credit(s)

**ART 498 - Seminar in the Visual Arts**

Conducted by one or several faculty members. Subject to be decided by students and faculty. Prerequisite(s): Consent of instructor(s). May be repeated for a maximum of 18 credits. 1-3 credit(s)

**GRC 320 - Design Methods & Research**

Lecture, readings, and studio projects exploring strategies to promote effective design thinking and analysis. Students will produce context appropriate design solutions and increase their technical fluency in industry-standard software applications. Prerequisite(s): GRC 250. 3 credit(s)

**GRC 350 - Design Ideation & Process**

Course investigates a range of approaches and strategies to enrich creative, conceptual and analytical aspects of the design process. Studio projects include digital process drawing and concept rendering. Prerequisite(s): GRC 250. 3 credit(s)

**GRC 360 - Typography & Letterforms**

Formerly Listed as ART 358

The historical context of letterforms and visual languages in type as symbol and image. Exploring typographic form expressing visual concepts and narratives. Prerequisite(s): ART 260, ART 261, GRC 250, GRC 320, GRC 350. 3 credit(s)

**GRC 364 - Publication Design**

Formerly Listed as ART 364

Course covers topics central to the design of long format publications, including layout & design, typography, production technologies and standards, and instruction in industry-standard software applications. Prerequisite(s): GRC 360, GRC 380. 3 credit(s)

**GRC 365 - Interface and Web Design**

Formerly Listed as ART 360.

Instruction in the methods and techniques of website design from concept to completion. Course covers site construction in HTML with cascading style sheets (css). Course emphasizes organizational design considerations such as information hierarchy, legibility, and accessibility, while maintaining a professional standard in graphic design treatment. Prerequisite(s): GRC 320, GRC 350. 3 credit(s)

**GRC 375 - Modeling & Animation**

Formerly Listed as ART 368.

Projects in 3D modeling, animation, and motion graphics. Explores progression of digital experiences through virtual environments. Prerequisite(s): GRC 320, GRC 350. 3 credit(s)

**GRC 380 - Design & Media Studio II**

Formerly Listed as ART 356.

Intensive problem solving utilizing diverse visual languages. Develop critical thinking with practical, theoretical and conceptual design problems. Prerequisite(s): GRC 250, ART 260, ART 261, GRC 320, GRC 350. 3 credit(s)

**GRC 420 - Design & Media Studio III**

Formerly Listed as ART 456.

Advanced visual communication problems within the context of professional graphic design and media. Projects reflect the context of specific audiences, businesses or organizations, and production requirements. Prerequisite(s): GRC 380, GRC 360. 3 credit(s)

**GRC 455 - Motion Graphics**

Explores the expressive potential of motion graphics as a contemporary communication and design medium. Projects and instruction utilizing time-based editing software and emphasizing kinetic composition methods with various visual media and graphic elements. Prerequisite(s): GRC 350. 3 credit(s)

**GRC 460 - Advanced Typography**

Formerly Listed as ART 448.

Exploring diverse approaches and media in creative and experimental typography. Projects in 2D, 3D and kinetic typographic design, considered in theoretical and practical application. Prerequisite(s): GRC 360, GRC 380. 3 credit(s)

**GRC 470 - Advanced Graphic Design**

Formerly Listed as ART 457.

Advanced visual communication problems in professional graphic design and media topics; preparation for professional BFA portfolio exhibit and review. Prerequisite(s): GRC 420. 3 credit(s)

**GRC 490 - Graphic Design/Media Internship**

Supervised professional experience in the graphic design, media, or illustration field. Prerequisite(s): GRC 320, GRC 350, GRC 360, GRC 380. Fully-admitted major in good standing, completed internship application, appropriate previous course work, and written consent by program coordinator required for enrollment. Internships may be repeated to a maximum of six credits. Note(s): S/F grading. Certain internships may require additional prior coursework per faculty advisor recommendation. 1-3 credit(s)

**GRC 492 - Individual Studies**

Student initiated in-depth design or media related work to enhance and focus the portfolio in target areas. Written project proposal, references, relevant student design samples, and proposed production schedule to be submitted in writing prior to enrollment. Enrollment requires written consent by instructor facilitating the study. Prerequisite(s): GRC 320, GRC 350, GRC 360, GRC 380. Admitted major in good standing, completed individual studies proposal, appropriate previous course work, and written consent by instructor required for enrollment. Note(s): May be repeated to a maximum of twelve credits. 1-4 credit(s)

# Dance

## ***Purpose and Focus***

The Department of Dance baccalaureate degrees allow students to pursue the study of dance in a liberal arts curriculum, which focuses on artistic, creative, technical and theoretical training. Through the Department of Dance curriculum and concert season, dance majors are prepared for professional careers in dance performance, teaching, and dance production, as well as post-baccalaureate study. The department produces a yearly concert season that provides cultural enrichment to the university and community.

## ***Accreditation***

Northwest Commission on Colleges and Universities

## ***Undergraduate Majors***

Dance — Bachelor of Fine Arts in Performance/Choreography

Dance — Bachelor of Arts in Production/Management

Dance — Bachelor of Arts in Production/Management with Teaching emphasis in Secondary Education

## ***Areas of Concentration***

### **Bachelor of Fine Arts in Performance/Choreography**

Focuses on an in-depth curriculum of professional dance technique, choreography and performance in preparation for a professional career in dance.

### **Bachelor of Arts in Production/Management**

Focuses on in-depth curriculum of professional dance production, management skills, and dance technique in preparation for a professional career in these related fields.

### **Bachelor of Arts in Production/Management with Teaching Licensure in Secondary Education**

Focuses on curriculum of professional dance production and management skills, coupled with a minor in education, in preparation for a professional career in primary and secondary education.

## ***Minor***

Dance

## ***Admission to the Major***

**Admission Policies:** The Department of Dance honors the university entrance requirements for admission into the department. Students not meeting these requirements may be admitted under contract on a probationary basis.

**Placement for Technique Classes:** A placement audition to determine technical level is required of all dance majors upon entrance into the Department of Dance. A placement audition's scheduled on the last day of instruction of the previous semester. Students will not be able to register for technique classes without completion of the placement audition. Out of state students may audition electronically please contact the department for details. Additionally, all dance majors will undergo a placement assessment of all technique classes.

**Admission to an Area of Concentration:** All students will follow the Bachelor of Arts degree requirements. Those students wishing to apply for candidacy in the Bachelor of Fine Arts in

Performance and Choreography degree must audition before a panel of the dance faculty. These auditions are scheduled the last day of instruction of each semester. A student may audition a maximum of three times. If not accepted after the third audition, the students must select from one of the other dance department degree tracks. Candidates for the B.F.A. degree will undergo rigorous scrutiny in compliance with professional expectations in academic and creative accomplishments. Students are required to complete all required courses in their area of concentration

**Transfer Policies:** The Department of Dance will accept a maximum of 50 percent of required courses prefixed DAN toward graduation. Transfer credits in dance technique will be limited to no more than 12 in the Bachelor of Fine Arts degree and 6 in the Bachelor of Arts. Credits in Dance Theory courses do not transfer into the degrees without a placement assessment. A change of major within UNLV does not constitute transfer status.

## ***Department Policies***

**Academic Probation:** Students must maintain a cumulative GPA of 2.00 for continued admission in the College of Fine Arts. Students with a GPA below the college requirement or below a 2.50 in departmental classes will be restricted from participating in the dance production season the following semester (not including summer session or dance production course work). Students failing to make satisfactory academic progress including failing to meet the requirements of departmental or area of concentration policy will be placed on a semester of academic probation with specified contractual conditions to be met by the end of the ensuing regular term (summer excluded). A student who fails to meet these contractual agreements will be placed on suspension from their area of concentration and/or from the Department of Dance. Students placed on academic suspension will not be allowed to enroll in course work in their area of concentration or in the department for one semester (summer excluded). Students on academic probation may not perform or participate in dance productions. At the end of the semester of suspension, the student may petition the department and/or the area of concentration in advance of registration for reinstatement.

**Repeatable Technique Courses:** Technique courses in the Department of Dance are repeatable for a maximum of four credits in the 100 and 200 levels and a maximum of 6 credits in the 300 and 400 levels. Repeatable technique courses are a common practice in the technical training of the dancer. Technique courses require a complex integration of a variety of skills: physical, mental, aesthetic, and technical. Students may demonstrate satisfactory levels of achievement in isolated skill areas but fail to synthesize them in performance. Consequently, the student who has not synthesized the material presented, but who has demonstrated isolated competencies does not deserve to fail the course. In many instances it is required to repeat a given level before moving up to a higher level. Grades in technique courses are determined by a variety of factors: participation, progress, dedication, quality of work in relationship to student peers, attention to specific academic and performance requirements, and mastery of the material. A passing grade does not necessarily indicate promotion to a higher technique level.



**Production:** DDance majors are required to participate (and be available for participation) in dance productions sponsored by the Department of Dance. All dance majors must complete four hours of load in time for all main stage concerts. Failure to do so will result in an inability to perform the following semester. A record of the student's involvement will be submitted each semester to the student's advisor and be placed in the department file. Students unable to participate in a specific production or concert may submit a written request for a waiver to the chair of the Department of Dance. Students failing to participate in dance productions may be separated from the area of concentration and will be restricted from performing the following semester. All dance majors participating in the concert are required to strike the production. Failure to do so will result in the student being suspended from participating in productions the following semester

- Seminar in Dance (DAN 199)

This course is mandatory for the first two semesters of matriculation as a major in the Department of Dance. The three remaining semesters may be completed at the discretion of the student. Three semesters of DAN 199 are required for transfers. Dance majors will not be recommended for graduation if this requirement is not satisfied.

- Multicultural–International Requirements

The Department of Dance offers dance courses that fulfill these requirements.

**Ed of Semester Assessments:** At the end of each semester, all dance majors will be scheduled to perform before a jury of the faculty. Juries are scheduled the last week of instruction. For a Production major, a portfolio review will also be scheduled. During that same week, all dance majors are required to meet with the faculty for a short conference at which time students are evaluated with regard to progress in technique classes, development in their area of concentration, academic standing, and production involvement and are given feedback with regard to future development and placement level.

**Progression:** Undergraduate majors must complete all degree requirements within eight years of matriculation.

## **Scholarships**

The Department of Dance offers the following dance scholarships: Kenneth and Mary Alice DeVos, Bea Ratcliffe, Ronnie Greenblatt Memorial Dance Scholarship, and Grant-in-Aid. All scholarship applicants must audition before a panel of dance faculty. This audition is scheduled the Friday of the last week of instruction. Scholarship applications and guidelines are available on the Dance Department website, and must be submitted before auditioning each semester. Many additional scholarships for scholastic achievement and financial need are available through the UNLV Financial Aid office.

## **Advising**

Dance majors are required to meet with an advisor at the end of each semester for approval of their schedule of classes for the next semester. Failure to seek academic advising may postpone date of graduation.

## **Additional Policies**

Additional Department of Dance policies are articulated in the UNLV Department of Dance Student Handbook. All dance majors and

minors are required to obtain, read, and follow departmental policies. Failure to do so may result in the inability to participate in the Dance Department production season. Students are also responsible for checking the departmental callboard outside of the dance office for updates and announcements.

## **Dance Major - Performance/Choreography-Bachelor of Fine Arts (BFA)**

Please see the UNLV College of Fine Arts - Department of Dance web page at <http://www.dance.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Learning Objectives**

1. BFA dance majors will be able to apply competent dance technique standards within professional practice and performance.
  - Objectives – After completing the BFA dance program the students will be able to:
    - Perform a variety of choreography in a dance concert performance.
    - Attend a dance audition prepared with performance resume, professional headshot and solo dance material.
    - Have a knowledge of correct dance terminology and its proper usage.
    - Have a knowledge of body mechanics through correctly applied kinetic principles.
2. BFA dance majors will be able to organize and apply principles of research and critical thinking through choreographic and pedagogic environments.
  - Objectives - After completing the BFA dance program will be able to:
    - Conceptualize choreographic form and be able to work with a group as a member or soloist.
    - Generate movement kinetically, respond to the movement of others, observe and analyze movement with regards to quality, shape form and structure.
    - Create dance based on structural limitations, music, props, scenic and/or costume production elements.
    - Recognize compositional forms from theme and variation to motif, abstraction, rondos, cannons, AB, ABA and natural forms.
    - Create and produce a five-minute original work with all elements of dance included for performance. Analyze and understand this work.
    - Organize design and execute a lesson plan for a 50-90 minutes dance class demonstrating various teaching methods or techniques.
    - Develop a curriculum of dance study complete with focus group, workshop or department objectives, course outline, schedule of classes, list of faculty and performance culmination.

3. BFA dance majors will be able to understand the application and use of music, voice and video within the dancers performance and choreographic needs.

- Objectives – After completing the BFA dance program the students will be able to:
  - Recognize and distinguish between simple and compound meters as well as constant and changing meters.
  - Analyze rhythm, meter, tempo and musical phrasing and to communicate with musicians and other dancers about musical components.
  - Demonstrate rhythms and meters on the body also known as eurhythmics to other dancers and musicians.
  - Create different types of accompaniments for their choreographies.
  - Recognize the various musical periods from primitive, medieval, Renaissance, Baroque, Classical, Romantic, and Contemporary musical examples.
  - Understand the musical framework of rhythm and dynamics as it pertains to the phrasing of movement to music.
  - Integrate the voice and body in various technical exercises.
  - Explore the breath and resonating spaces of the voice and expressive actions and the expressive cycle within acting scene work and dance performances.

4. BFA dance majors will have knowledge of dance arts in a liberal arts framework/environment.

- Objectives – After completing the BFA dance program the students will be able to:
  - Compare and contrast aesthetics in dance and related arts through period, style, and theme.
  - Communicate knowledge of art, music, literature and theater in a general use or application to culture and society.

5. BFA dance majors will understand dance from the practical, production and historical point of view.

- Objectives – After completing the BFA dance program students will be able to:
  - Evaluate and judge a positive production experience from a negative one and how to solve these problems for future concerts.
  - Communicate and specify their needs to the various production designers such as lighting designers, sound designers, costume designers and set designers.
  - Know how to locate the necessary elements to produce a dance concert.
  - Apply the knowledge of how to run a dance concert from the audition process all the way through to the final performance.
  - Identify and analyze the joints of the body. Students will be able to label the bones and major muscles of the body and communicate an understanding of the correct use of the anatomical structures of the human kinetic instrument.
  - Communicate knowledge of historical, philosophical and sociological developments in dance from pre-historic times to the late 1800's along with the events, personalities, and choreographic works and current trends in dance specific to America since 1900.
  - Apply and assimilate knowledge of the trends in dance and music that occur after the avant garde period (1945-2005) into the practical application of dance.
  - Understand the impact of and purposes of dances from around the world and throughout time and cultures in order

to gain an appreciation and working knowledge of these cultural dances; along with their music and costume use and significance.

### University Graduation Requirements

- Please see Graduation Policies for complete information.

Dance Major - Performance/Choreography

Degree Requirements.....Total: 122-125 Credits

General Education Requirements..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 3

Distribution Requirements ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:

- Automatically satisfied by Major requirements

- Social Science: 9 credits

- One course each from three different fields

- Life and Physical Sciences and Analytical Thinking: 10 credits

- Two courses from Life and Physical Science; at least one course must have a lab

- Analytical Thinking - 3 credits

- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BFA in Dance .....Subtotal: 85 Credits

Dance Core Requirements..... Credits: 50

- DAN 108 - Pilates I

- DAN 109 - Music Theory for Dancers I

- DAN 188 - Choreography I: Improvisation for Composition

- DAN 199 - Seminar in Dance (5 semesters)

- DAN 208 - Pilates II

- DAN 209 - Music Theory for Dancers II

- DAN 288 - Choreography II: Elements of Dance Composition

- DAN 301 - World Dance

- DAN 309 - Music Theory for Dancers III

- DAN 351 - Dance Kinesiology

- DAN 365 - Dance History I: Dance History to 1900

- DAN 367 - Dance Production I

- DAN 384 - Bachelor of Fine Arts Project I

- DAN 388 - Choreography III: Principles of Composition

- DAN 465 - Dance History II: 1900 to Present

- DAN 466\* - Dance History III: Contemporary Trends

- DAN 479 - Methods of Teaching Dance

- DAN 484 - Bachelor of Fine Arts Project II

- DAN 488 - Choreography IV: Theory and Practical Application

3 credits from the following:

- DAN 369 - Aesthetics of Design for Dance
- DAN 370 - Sound Design for Dance
- DAN 371 - Lighting Design for Dance I
- DAN 372 - Costume Construction for Dance
- DAN 373 - Scenic Design for Dance I
- DAN 380 - Stage Management for Dance
- DAN 467\* - Dance Production II

8 credits from the following:

- DAN 132 - Jazz Dance I
- DAN 232 - Jazz Dance II
- DAN 332 - Jazz Dance III
- DAN 432 - Jazz Dance IV

8 credits from the following:

- DAN 135 - Ballet I
- DAN 235 - Ballet II
- DAN 335 - Ballet (Advanced)
- DAN 435 - Ballet IV

8 credits from the following:

- DAN 138 - Modern Dance I
- DAN 238 - Modern Dance II
- DAN 338 - Modern Dance III
- DAN 438 - Modern Dance IV

Ensemble and Company..... Credits: 8

- DAN 387 - Dance Ensemble I
- DAN 487 - Dance Ensemble II

Total Credits: ..... 122-125

## **Dance Major- Production/Management - Bachelor of Arts (BA)**

Please see the UNLV College of Fine Arts - Department of Dance web page at <http://www.dance.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### **Learning Objectives**

1. BA dance-production majors will be able to apply dance production and management standards in realized productions and understand the application and use of all physical production elements ( lights, scenery, costumes, video, music, stage management...) for performance and choreographic needs.
  - Objectives – After completing the BA dance program the students will be able to:
    - Effectively stage manage a production.
    - Do basic technical set up for production.
    - Have knowledge on how to travel and tour a dance production.
2. BA dance- production majors will be able to organize and apply principles of research and critical thinking and aesthetics through design and choreographic environments.
  - Objectives – After completing the BA dance program the students will be able to:
    - Have the ability to define period styles in design

- Present concepts and ideas in the framework of historical and current trends
- Map out and develop a cohesive production concept and “arch” for design choices.

3. BA dance- production majors will have knowledge of the dance art in fine arts framework/ environment. The students will understand the dance from both physical and historical aspects.

- Objectives – After completing the BA dance program the students will be able to:
  - Explain and discuss production through understanding of the basic principles of choreography.
  - Know and be able to discuss ideas and concepts of dance and visual arts leaders.

4. BA dance- production majors will have a thorough understanding of the partnership between choreographer and designer and be able to create a collaborative working environment

- Objectives – After completing the BA dance program students will be able to:
  - Execute collaborations with actual choreographer to develop presented work.
  - Share thoughts and ideas in a nurturing manor to the betterment of the work.

### **University Graduation Requirements**

- Please see Graduation Policies for complete information.

### **Dance Major - Production/Management**

Degree Requirements.....Total: 122-125 Credits

General Education Requirements..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

(satisfies both constitutions)

Mathematics..... Credits: 3

Distribution Requirements ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

### **Multicultural and International**

Multicultural (DAN 465)

International (DAN 301)

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/student>

Major Requirements - BA in Dance .....Subtotal: 85 Credits  
 Three advised CFA design courses ..... Credits: 9  
 Dance Core Requirements..... Credits: 64

- DAN 109 - Music Theory for Dancers I
- DAN 188 - Choreography I: Improvisation for Composition
- DAN 199 - Seminar in Dance (3 semesters)
- DAN 209 - Music Theory for Dancers II
- DAN 288 - Choreography II: Elements of Dance Composition
- DAN 365 - Dance History I: Dance History to 1900
- DAN 367 - Dance Production I
- DAN 369 - Aesthetics of Design for Dance
- DAN 370 - Sound Design for Dance
- DAN 371 - Lighting Design for Dance I
- DAN 372 - Costume Construction for Dance
- DAN 373 - Scenic Design for Dance I
- DAN 380 - Stage Management for Dance
- DAN 465 - Dance History II: 1900 to Present
- DAN 466\* - Dance History III: Contemporary Trends
- DAN 467\* - Dance Production II
- DAN 470\* - Video Design for Dance
- DAN 471 - Lighting Design for Dance II
- DAN 472\* - Costume Design for Dance
- DAN 473 - Scenic Design for Dance II
- DAN 475\* - Production Lab - Must be repeated 4 times
- DAN 480\* - Business of Dance

4 credits from the following:

- DAN 132 - Jazz Dance I
- DAN 232 - Jazz Dance II
- DAN 332 - Jazz Dance III
- DAN 432 - Jazz Dance IV

4 credits from the following:

- DAN 135 - Ballet I
- DAN 235 - Ballet II
- DAN 335 - Ballet (Advanced)
- DAN 435 - Ballet IV

4 credits from the following:

- DAN 138 - Modern Dance I
- DAN 238 - Modern Dance II
- DAN 338 - Modern Dance III
- DAN 438 - Modern Dance IV

BAPM students will be required to take 3 credits of dance technique or choreography electives.  
 Total Credits: 122-125

## Minor

### Dance Minor

Courses Include .....Total Credits: 21  
 REQUIRED

- DAN 365 - Dance History I: Dance History to 1900
  - DAN 465 - Dance History II: 1900 to Present
- and 15 credits of electives.

Dance minors must have a total of at least 12 upper-division Dance Department credits. This should not include DAN 384/484. Two semesters of DAN 199 (Seminar in Dance) are recommended.

### Pilates Minor

Students enrolled within a degree program may elect to take the Minor in Pilates which is separate from Minor in Dance.  
 Minor Requirements.....Total Credits: 22

- DAN 108 - Pilates I
- DAN 110 - Dance for Flexibility and Tone
- SIM 201 - Exercise and Sport Injury
- DAN 208 - Pilates II
- KIN 245 - Anatomical Kinesiology
- DAN 308 - Pilates III (repeat for a total of 4 credits)
- DAN 351 - Dance Kinesiology
- DAN 451 - Prevention and Care of Dance Injuries
- DAN 485 - Dance Internship

## Certificate

### Pilates Training Certificate

The program grants Pilates trainer's certification allowing students employment opportunities in the global Pilates field as trainers, teachers, rehabilitation therapists, and practitioners.

In order to earn a certificate in Pilates instruction, students must complete 14 credits; the required courses are:

Certificate in Pilates Training

- DAN 108 - Pilates I
- DAN 110 - Dance for Flexibility and Tone
- SIM 101 - Athletic Training
- DAN 208 - Pilates II
- DAN 308 - Pilates III
- DAN 351 - Dance Kinesiology
- DAN 451 - Prevention and Care of Dance Injuries

## Certificate

### Secondary Teacher Certification: Dance

Students wishing to teach dance at the primary and secondary education levels should contact the Department of Curriculum and Instruction in the College of Education through the COE Advising Center (CEB 144) for the requirements leading to licensure. The Department of Dance and the Clark County School District have developed a list of courses required for endorsement of teaching dance in Clark County schools. This list is available in the Department of Dance office (HFA 110).

## Dance

### DAN 100 - Introduction to Dance

No dance training necessary. Fundamentals of movement styles and philosophies of dance. Students observe and participate through demonstration, video, and discussion. 3 credit(s)

### DAN 101 - Dance Appreciation

Non-technical course providing understanding and appreciation of the art of dance with special focus on the artists and styles. Intended for non-dance majors only. 3 credit(s)

### DAN 103 - Sex, Dance, and Entertainment

Non-technical course providing understanding and appreciation of the sexual derivation and evolution of social, street, and fad dances from 1900 to the present, and the subcultures that created them. Intended for non-dance majors only. 3 credit(s)

### DAN 104 - Appreciation of Dance in Broadway and Film Musicals

Non-technical course providing an understanding and appreciation of "Show-Biz" dancing in Broadway musicals from the 1940s to the present. Shows like Oklahoma, West Side Story, A Chorus Line, and Dancin' viewed and discussed in relation to dance. Dance stars on film such as Ginger Rogers, Fred Astaire, Gene Kelly, and Mikhail Baryshnikov explored in respect to their contributions to choreography and performance. 3 credit(s)



**DAN 108 - Pilates I**

Introduction to alignment, flexibility and strengthening technique for the dance with a certified Pilates® practitioner. Pilates® technique, a universal theory of training for movement in all dance forms, develops correct use of the dancer's instrument and prevents dance injury. Includes practical application with Pilates® apparatus and mat work. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 109 - Music Theory for Dancers I**

Basic elements of music with special emphasis on rhythm. Prerequisite(s): Dance majors only. 3 credit(s)

**DAN 110 - Dance for Flexibility and Tone**

Open to all dance majors and non-majors. Emphasis on dance alignment, flexibility, breathing, and tone. May be repeated to a maximum of three credits. 1 credit(s)

**DAN 113 - Flamenco Dance I**

Study of the technique and style of Flamenco Dance, including foot work, hand clapping (Palmas), finger snapping (Pitos) and the playing of Castanets (Palillos). The types of Flamenco dances explored include Sevillanas, Furruca, and Alegrias. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 114 - Country-Western and Square Dance**

Vocabulary and skills of country-western and square dance styles. 1 credit(s)

**DAN 115 - Middle Eastern Dance I**

Study of Arabic dance from folklore to modern trends. Expands knowledge of ethnic dance through Middle Eastern movement, music, history, customs, culture and art. Special emphasis on understanding difference between traditional Middle Eastern folk dance and modern bellydance. 1 credit(s)

**DAN 116 - Hip Hop I**

Beginning level Hip Hop. Previous experience in dance not necessary. Offers foundation for dance by putting into practice basic techniques for Hip Hop. Particular emphasis on student's physical awareness, expressiveness and grasp of material. 1 credit(s)

**DAN 125 - Ballroom Dance (Beginning)**

Basic ballroom techniques in both rhythm and smooth dances. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 126 - Ballroom Dance (Beginning/Intermediate)**

Beginning/Intermediate-level ballroom techniques in both rhythm and smooth dances. Prerequisite(s): DAN 125. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 132 - Jazz Dance I**

Beginning techniques of jazz dance. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 135 - Ballet I**

Beginning techniques of ballet. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 137 - International Folk Dance**

1 credit(s)

**DAN 138 - Modern Dance I**

Beginning techniques of modern dance. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 144 - Tap Dance (Beginning)**

Beginning techniques of tap dance. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 165 - Survey of Dance**

Introduction to dance, place of dance in social and cultural life, and relation of dance to other art forms. 3 credit(s)

**DAN 166 - Survey of African American Dance**

Survey of the role of the African-American in the development of dance in America. Special focus placed on artists, their philosophies and contributions in the areas of ballet, jazz, modern and tap. Note(s): Satisfies Multicultural and Fine Arts Requirement. Same as AAS 166. 3 credit(s)

**DAN 188 - Choreography I: Improvisation for Composition**

Practical application of the techniques of improvisation for its use in composition. 3 credit(s)

**DAN 199 - Seminar in Dance**

Exploration of issues in dance. Required each semester for all dance majors. 0 credit(s)

**DAN 208 - Pilates II**

Continued study of alignment, flexibility, and strengthening techniques. Covers the theory and application of Pilates technique on Pilates Equipment. Prerequisite(s): DAN 108. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 209 - Music Theory for Dancers II**

Study of rhythmic devices, structures, and analysis as applied to music and movement. Techniques for this selection and production of accompaniment for dance. Prerequisite(s): DAN 109. 3 credit(s)

**DAN 213 - Flamenco Dance II**

Continuation of the study of the technique and style of Flamenco Dance, including advanced foot work, hand clapping (Palmas), finger snapping (Pitos) and the playing of Castanets (Palillos). Types of Flamenco dances explored include Rumba, Tangos Gitanos, Bulerias, and Soleares. Prerequisite(s): DAN 113. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 215 - Middle Eastern Dance II**

Further study of Arabic dance with more in-depth focus on Arabic rhythms, classical Arabic dance forms including ceremonial and ritual dances, and study of modern Arabic dance sequences used in choreography. Prerequisite(s): DAN 115. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 216 - Hip Hop II**

Intermediate level Hip Hop. Previous experience in Hip Hop is necessary. Builds upon technique and terminology previously acquired in Hip Hop I. Particular emphasis on enhancing the physical awareness and expressiveness. Focuses on intermediate level technique skills as well as explores a variety of styles in Hip Hop music and movement. Prerequisite(s): DAN 116. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 225 - Ballroom Dance (Intermediate)**

Intermediate-level ballroom dance techniques in both rhythm and smooth dances. Prerequisite(s): DAN 126. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 226 - Ballroom Dance (Intermediate/Advanced)**

Intermediate/Advanced-level ballroom dance technique in both rhythm and smooth dances. Introduction to continuity styling. Prerequisite(s): DAN 225. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 227 - International Ballroom Dance**

International dance skills: waltz, quickstep, jive, and Latin American. Prerequisite(s): DAN 226. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 232 - Jazz Dance II**

Intermediate techniques of jazz dance. Prerequisite(s): DAN 132, DAN 133. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 235 - Ballet II**

Intermediate techniques of ballet. Prerequisite(s): DAN 135. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 238 - Modern Dance II**

Intermediate techniques of modern dance. Prerequisite(s): DAN 138. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 239 - Modern Dance (Intermediate/Advanced)**

Technique class for students who are beyond the intermediate level but need additional training before entering the advanced level. Prerequisite(s): DAN 238. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 244 - Tap Dance (Intermediate)**

Intermediate techniques of tap dancing. Prerequisite(s): DAN 144. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 265 - Ballet History**

Survey of ballet from semination in the courts of Europe to its current position as an accepted art form on the professional stage. Special focus on the artists, their philosophies, contributions, and techniques. 3 credit(s)

**DAN 279 - Dance in Elementary Education**

Designed to acquaint students with the origin, scope, development, and purposes of movement exploration and rhythmic activities as incorporated in the elementary education program. 2 credit(s)

**DAN 288 - Choreography II: Elements of Dance Composition**

Elements of Dance Composition including choreographic studies in Space, Time, Dynamics and basic forms. Prerequisite(s): DAN 188. 3 credit(s)

**DAN 301 - World Dance**

International historical concepts, systems and traditions of ethnic dance focusing on social and cultural motivations from many regions of Western and Eastern Europe, Asia, as well as Central and South America. Prerequisite(s): Any 100 or 200 level dance course or concurrently enrolled in a 100 or 200 level dance class. Note(s): Satisfies International Requirement. 3 credit(s)

**DAN 307 - Composer-Choreographer Collaboration**

Techniques and principles of music composition as related to choreography. Famous collaborations discussed. Focuses on practical applications. Prerequisite(s): DAN 209, DAN 309 or equivalent. 3 credit(s)

**DAN 308 - Pilates III**

Advanced study of alignment, flexibility, and strengthening technique for dance. Use of the three pieces of Pilates equipment (trapeze table, reformer, and chair). Prerequisite(s): DAN 108, DAN 208. May be repeated to a maximum of four credits. 2 credit(s)

**DAN 309 - Music Theory for Dancers III**

Survey of musical dance literature focusing on dance music of Medieval, Renaissance, Baroque, Classical, Romantic, and twentieth-century composers, with special attention to composer-choreographer collaborations. Prerequisite(s): DAN 209. 3 credit(s)

**DAN 325 - Ballroom Dance (Advanced)**

Advanced ballroom dance technique in rhythm and smooth dances, continuity styling, and an introduction to bolero or paso doble. Prerequisite(s): DAN 226. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 332 - Jazz Dance III**

Advanced techniques in jazz dance. 1 credit(s) Prerequisite(s): DAN 232. May be repeated to a maximum of six credits.

**DAN 335 - Ballet (Advanced)**

Advanced techniques in ballet. Prerequisite(s): DAN 235, DAN 236. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 338 - Modern Dance III**

Advanced techniques in modern dance. Prerequisite(s): DAN 238. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 344 - Tap Dance (Advanced)**

Advanced techniques in tap dancing. Prerequisite(s): DAN 244. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 351 - Dance Kinesiology**

Study of the muscular and skeletal structures of the body involved in the discipline of dance. Emphasis on major muscle groups and joint actions, their capacity for movement, with special attention to the causes and prevention of dance injuries. 3 credit(s)

**DAN 365 - Dance History I: Dance History to 1900**

Historical concepts, systems, traditions, and related arts of dance to 1900. Prerequisite(s): Junior standing. 3 credit(s)

**DAN 367 - Dance Production I**

Techniques of staging performance. Study of the principles of costume, light, sound, and set design; makeup; box office management and publicity. Practical application in dance production. Prerequisite(s): DAN 100 or 200 level classes. 3 credit(s)

**DAN 369 - Aesthetics of Design for Dance**

Aesthetics of the visual components of dance production and experience in practical application of design. Prerequisite(s): DAN 367. 3 credit(s)

**DAN 370 - Sound Design for Dance**

Provides technical understanding in the principles of sound design, basic recording techniques and video design for dance productions developed through lectures, demonstrations, projects, and production involvement. Prerequisite(s): DAN 209 and DAN 367. 3 credit(s)

**DAN 371 - Lighting Design for Dance I**

Provides an understanding in the principles and techniques of lighting design and the collaborative process of dance production on an advanced level. Prerequisite(s): DAN 367 and DAN 369. 3 credit(s)

**DAN 372 - Costume Construction for Dance**

Provides technical understanding of principles and techniques of costume construction for dance production. Techniques in makeup and hair application for dance production. Prerequisite(s): DAN 367 and DAN 369. 3 credit(s)

**DAN 373 - Scenic Design for Dance I**

Provides technical understanding of principles and techniques in design and construction of small scenic prop pieces as well as scenic painting for dance production. Prerequisite(s): DAN 367 and DAN 369. 3 credit(s)

**DAN 374 - Musical Theatre Dance Laboratory I**

Individual, specialized study in the various dance forms encompassed in the musical theatre art form: Ballet and modern dance techniques. Special emphasis in the fundamentals of dance technique to establish a solid, kinesiologically sound movement base. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 376 - Musical Theatre Dance**

Techniques and styles of musical theatre dance. 1 credit(s)

**DAN 379 - Dance in Secondary Education**

Origin, scope, development, and purposes of the dance as incorporated in the secondary school program. 2 credit(s)

**DAN 380 - Stage Management for Dance**

Provides technical understanding of principles and techniques of stage management dance production. Prerequisite(s): DAN 367. 3 credit(s)

**DAN 384 - Bachelor of Fine Arts Project I**

Choreographic process of producing dance pieces: concept, intention, structure, music, costume, dancers, technical needs, lighting, performance, etc. Creation and production of a dance piece to be auditioned for presentation in the UNLV concert season. Prerequisite(s): Must be B.F.A. candidate. 3 credit(s)

**DAN 387 - Dance Ensemble I**

Participates as a member of a dance ensemble. Develops the skills necessary for participation in a dance arts company. Practical study in performance, ensemble class, rehearsal schedule, publicity, production, repertory, and technique. Prerequisite(s): DAN 332, DAN 335, DAN 338. Audition required. May be repeated to a maximum of ten credits. 1-2 credit(s)

**DAN 388 - Choreography III: Principles of Composition**

Continuing choreographic exploration in the elements of dance including studies on abstraction, motif manipulation, theme and variation and other choreographic techniques. Prerequisite(s): DAN 288. 3 credit(s)

**DAN 407 - Seminar in Dance Music**

Understanding of the function of dance accompaniment for ballet and modern dance classes, as well as choreography. Types of accompaniment and teacher/choreographer/musician relationships explored through discussion, demonstration and interaction with dance faculty. Repertory class for dance music. Prerequisite(s): Audition. May be repeated to a maximum of two credits. 1 credit(s)

**DAN 409 - Electronic Music for Dance**

Laboratory in the basic fundamentals of electronic music and its application to dance. Focuses on terminology, MIDI application, creation of sound scores, and discussions of choreographic possibilities. Prerequisite(s): DAN 209 and DAN 309. 3 credit(s)

**DAN 421A - Entertainment and Fine Arts Law I**

Protection of works created by entertainers and artists, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special consideration to film and music industries. Note(s): Same as AAD 421A, THTR 421A. 3 credit(s)

**DAN 421B - Entertainment and Fine Arts Law II**

Unique legal issues in the fields of live stage performance, theater, music, television and film, the art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems. Prerequisite(s): ART 421A, DAN 421A, MUS 421A, or THTR 421A. Note(s): Same as AAD 421B, THTR 421B. 3 credit(s)

**DAN 425 - Ballroom Formation Team**

Competitive ballroom dance team active in local and regional competitions. Prerequisite(s): Audition. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 432 - Jazz Dance IV**

Professional-level jazz dance techniques. Preparation for professional performance. Prerequisite(s): DAN 332 or equivalent. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 435 - Ballet IV**

Professional-level ballet techniques. Preparation for professional performance. Prerequisite(s): DAN 335. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 438 - Modern Dance IV**

Modern dance techniques in preparation for professional performance. Prerequisite(s): DAN 338. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 444 - Tap Dance (Professional)**

Tap dance techniques in preparation for professional performance. Prerequisite(s): DAN 344. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 451 - Prevention and Care of Dance Injuries**

Formerly Listed as DAN 251  
Anatomy in Clay, building muscle groups and studying the basic concepts of injury as applied to these muscle groups, immediate care of dance injuries, and the accelerated rehabilitation and safe to return to activity. Prerequisite(s): DAN 351. 3 credit(s)

**DAN 452 - Dance Notation and Movement Analysis**

Basic principles of labanotation, work in theory, reading, and writing. Prerequisite(s): DAN 109, DAN 209, DAN 188, and DAN 288. 2 credit(s)

**DAN 462 - Workshop in Dance**

Theory and practical applications in dance. Note(s): This course is crosslisted with DAN 662. Credit at the 600-level requires additional work. 2 credit(s)

**DAN 465 - Dance History II: 1900 to Present**

Historical concepts, systems, traditions, and related arts of dance since 1900. Prerequisite(s): DAN 288 and DAN 365. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**DAN 466\* - Dance History III: Contemporary Trends**

Trends in dance, music, and visual art relationships from the avant garde. Prerequisite(s): DAN 465. 3 credit(s)

**DAN 467\* - Dance Production II**

Continuation of DAN 367, focuses on individualized supervision of production project. Students produce full-scale dance concerts and recitals by serving as production managers, stage managers, and lighting, sound, and/or costume/set technicians. Prerequisite(s): DAN 367. 3 credit(s)

**DAN 470\* - Video Design for Dance**

Technical course that will analyze the use of video design as a scenic element for dance productions as well as create video designs for live dance productions. Prerequisite(s): DAN 367, DAN 370. 3 credit(s)

**DAN 471 - Lighting Design for Dance II**

Provides understanding of principles and techniques of lighting design and the collaborative process of dance production on an advanced level. Continuation of DAN 371. Prerequisite(s): DAN 367, DAN 369 and DAN 371. 3 credit(s)

**DAN 472\* - Costume Design for Dance**

Provides understanding of principles and techniques of costume design and construction for dance production. Prerequisite(s): DAN 367, DAN 369 and DAN 372. 3 credit(s)

**DAN 473 - Scenic Design for Dance II**

Provides understanding of principles and techniques in design of scenery and scenic elements on a larger scale for dance production stage as well as to be able to design for various performance venues other than the stage. Prerequisite(s): DAN 367, DAN 369 and DAN 373. 3 credit(s)

**DAN 474 - Musical Theatre Dance Laboratory II**

Individual, specialized study in the various dance forms encompassed in the musical theatre art form: jazz, tap, ballroom, and musical dance techniques. Prerequisite(s): DAN 374. May be repeated to a maximum of six credits. 1 credit(s)

**DAN 475\* - Production Lab**

Provides hands-on experience in technical and design production work for dance production. Prerequisite(s): DAN 367 and DAN 467. May be repeated to a maximum of four credits. 1 credit(s)

**DAN 477 - Special Topics in Dance**

Study in special or unique areas of dance theory. May be repeated to a maximum of six credits. Note(s): Topics to be announced. This course is crosslisted with DAN 677. Credit at the 600-level requires additional work 1-3 credit(s)

**DAN 478 - Special Topics in Dance**

Study in special or unique areas of dance technique. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with DAN 678. Credit at the 600-level requires additional work. 1-3 credit(s)

**DAN 479 - Methods of Teaching Dance**

Study of techniques, practices, methods, and materials in dance education. Prerequisite(s): DAN 351 and 300-400 levels in ballet, modern and jazz dance technique. Senior standing only. 3 credit(s)

**DAN 480 - Business of Dance**

Introduction to business aspects of dance career and company management including grants, posters, press packets, public relations and related issues. Prerequisite(s): DAN 367. 3 credit(s)

**DAN 482 - Women in the Performing Arts**

(Same as WMST 482.) Explores contributions by women to the performing arts of dance, music, and theatre/film. Integrates socio-economic and historic factors that helped shape artists' intentions and contributions. Prerequisite(s): DAN 100 or DAN 101. Note(s): Same as WMST 482. 3 credit(s)

**DAN 483 - Feminist Issues in the Popular Arts**

(Same as WMST 483.) Explores feminist issues found by female "pop" artists in the performing arts of dance, music, and theatre/film from the 1940s to the present. Prerequisite(s): DAN 100 or DAN 101, DAN 482 or WMST 482. Note(s): Same as WMST 483. 3 credit(s)

**DAN 484 - Bachelor of Fine Arts Project II**

Involves full commitment to the creative process of choreography from conceptualization through performance of a concert dance to be programmed as part of the department's dance season. Continues study of choreographic process: concept, intention, structure, music, costume, dancers, technical needs. All work will be accomplished under advisement of faculty. Prerequisite(s): DAN 384. 3 credit(s)

**DAN 485 - Dance Internship**

Student rehearsal and performance in professional companies. Prerequisite(s): Consent of department chair. May be repeated to a maximum of three credits. Note(s): This course is crosslisted with DAN 685. Credit at the 600-level requires additional work. 1 credit(s)

**DAN 487 - Dance Ensemble II**

Modeled on professional standards and structure. Practical study in the dance forms: rehearsal, company class, performance, rehearsal schedule, publicity, and production. Prerequisite(s): DAN 432, or DAN 435, or DAN 438. Audition required. May be repeated to a maximum of ten credits. Note(s): Rehearsals/performances to be arranged. 1-2 credit(s)

**DAN 488 - Choreography IV: Theory and Practical Application**

Theory and practical application of selected advanced compositional techniques and forms of choreography including experience with dance and media. Prerequisite(s): DAN 388. 3 credit(s)

**DAN 490 - Independent Study**

Student designed projects in agreement with student advisor. May be repeated to a maximum of six credits. 1-3 credit(s)

**DAN 491 - Teaching Practicum**

Faculty directed student teaching in dance. 3 credit(s)

# Entertainment Engineering and Design

The entertainment industry is one of the fastest-growing industries in the world, and the creative use of high technology is a must for today's entertainment designer. The Bachelor of Science in Entertainment Engineering and Design provides an academic path for students who are interested in pursuing the interdisciplinary fusion of engineering and the fine arts that will allow them to succeed in the entertainment industry. Students graduating from the program will be prepared to work in the design, production, and operation of entertainment devices, systems, and venues. The students graduating from this program will be developing the infrastructure of the next generation of entertainment systems used throughout the globe.

The program focuses on building a strong foundation in design principles from the beginning of the student's freshman year, emphasizing projects that involve hands-on fabrication and visual communication skills. As the students progress through the program, they will have the opportunity to intern with entertainment companies such as Cirque du Soleil and Wet Design. In addition, there will be opportunities for students to study at partner design schools in Europe and Asia. As upper classmen, the students will focus on specific areas within the entertainment industry such as (1) structural design and rigging, (2) automation and motion controls, (3) biomechanics and animatronics, (4) entertainment venue design, and (5) advanced visualization techniques.

**EED 217 - Entertainment Sound I**

This is the entry-level course for sound design and technology in the live entertainment industry. Students will become familiar with basic theatre terminology, audio equipment and the sound design process. Prerequisite(s): MUS 231. Note(s): Same as THTR 217. 3 credit(s)

## Film

***Purpose and Focus***

The instruction leading to the Bachelor of Arts in Film is designed to give students a strong basis in one of two paths best fitting their professional goals: placement in a graduate program or in a professional position in the entertainment industry.

***Accreditation***

Northwest Commission on Colleges and Universities

***Undergraduate Major***

Film

***Admission to the Major***

Minimum GPA: 2.00

**Admission Policies:** Students not meeting the 2.00 GPA requirement may be admitted on a probationary basis in consultation with the Department and the College of Fine Arts Advising Center.

**Transfer Policies:** Articulation of transfer credits will be determined by the chairperson of the department.



## Department Policies

**Academic Policies:** Students must maintain an overall 2.70 in all film courses to make satisfactory progress.

## Advising

During the first two years of the program students meet with an advisor at the College of Fine Arts Advising Center. At the beginning of their junior year students meet with a film faculty member.

## Film Major - Bachelor of Arts (BA)

Please see the UNLV College of Fine Arts - Department of Film web page at [www.unlv.edu/film](http://www.unlv.edu/film) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Objectives

### Outcome #1

Knowledge Identify  
Distinguish Film History in Context

By the end of the program students will be able to distinguish major figures instrumental in the creation of world cinema and distinguish different film genres, film forms, national cinemas, their production and distribution systems.

### Outcome #2

Comprehension Communicate  
Demonstrate Film Language

By the end of the program students will be able to communicate cinematic language in terms of the art and craft of cinema including: mise-en-scene, cinematography, editing, sound, acting, directing, narrative storytelling, documentary, film criticism and film theory.

### Outcome #3

Application Recognize  
Screen Story Recognition

By the end of the program students will be able to recognize and discuss strengths and weaknesses with structural elements of a cinematic story.

### Outcome #4

Application Research  
Film Research

By the end of the program students will be able to use the library, search the internet, and an understanding of a foreign language sufficiently to conduct emphasis-appropriate research in their selected field of cinema.

### Outcome #5

Analysis Analyze  
Film Analysis

By the end of this program the student will be able to recognize and describe the terms taught and apply them to any discussion of the field of cinema.

### Outcome #6

Synthesis Create  
Filmmaking Fundamentals

By the end of this program the student will be able to write film essays, write in proper screenplay format, and create short films.

### Outcome #7

Evaluation Evaluate  
Communicate Film Response and Criticism

By the end of this program the student will be able to evaluate films and screenplays and communicate critical and oral responses.

### Outcome #8

Emphasis Select  
Specialize Track Specialization

Each Film major meets with an advisor to focus on one of these areas: film history, production, and screenwriting, short films. It is expected that the student meet actively with the advisor to tailor their track electives to meet their needs, interests, and goals.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Film Degree Requirements.....Total: 120-123

General Education Requirements..... Subtotal: 38-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 101 - United States: Colonial Period to 1877

or

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 3

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Two courses from Life and Physical Science; at least one course must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in Film ..... Subtotal: 60-63 Credits

Computer Science - one 3 credit course required (may use FIS 315)

Foreign Language - two 3 credit courses

Students must enroll in two semesters of the same foreign language approved by the department.

Film Requirements..... Credits: 54

- FIS 100 - Introduction to Film
- FIS 110 - Language of Film
- FIS 216 - Intro to Screenwriting
- FIS 220 - Film Production I
- FIS 414 - Cinematic Structure

and either

- FIS 300 - Film Criticism

or

- FIS 400 - Film Theory

Select three courses from the following:

- FIS 350 - Historical Survey of Screen Acting
- FIS 410 - Major Figures in the Cinema
- FIS 440 - The European Film
- FIS 441 - Drama and Film of German Expressionism
- FIS 445 - The Rise of Irish Cinema
- FIS 446 - History of the Russian Film
- FIS 470 - Women in Film
- FIS 474 - Sex in the Cinema
- FIS 475 - Modern Latin American Film
- FIS 493 - Studies in British Film
- FIS 494 - History of the American Film

Select two courses from the following:

- FIS 409 - Politics and the Film
- FIS 443 - From French Literature to Film
- FIS 444 - Documentary Film and Video
- FIS 495 - Film and Literature
- FIS 496 - American Hero in Film and Literature
- FIS 497 - Genre Studies in Film

Select seven upper division elective courses from additional film department offerings in concert with Film Advisor.

Electives..... Credits: 18-19

Total Credits: ..... 120-123

## Film Minor

Courses Include ..... Total Credits: 18

- FIS 100 - Introduction to Film
- FIS 110 - Language of Film

two courses selected from:

- FIS 350 - Historical Survey of Screen Acting
- FIS 410 - Major Figures in the Cinema
- FIS 440 - The European Film
- FIS 441 - Drama and Film of German Expressionism
- FIS 445 - The Rise of Irish Cinema
- FIS 446 - History of the Russian Film
- FIS 470 - Women in Film
- FIS 474 - Sex in the Cinema
- FIS 475 - Modern Latin American Film
- FIS 409 - Politics and the Film
- FIS 443 - From French Literature to Film
- FIS 444 - Documentary Film and Video
- FIS 493 - Studies in British Film
- FIS 494 - History of the American Film
- FIS 495 - Film and Literature
- FIS 496 - American Hero in Film and Literature
- FIS 497 - Genre Studies in Film

and six additional upper-division (300-400) credits for the film curriculum.

## Film

### FIS 100 - Introduction to Film

Introduction to the history of international film, its structure and terminology. Development of cinematic techniques from Edison, Lumière, and Melies to prevailing contemporary trends surveyed, with special emphasis on major directors such as Eisenstein, Ford, Griffith, Lang, Hitchcock, Bergman, and Renoir. 3 credit(s)

### FIS 110 - Language of Film

Introduction to studying feature films through lectures, discussions, and writing criticism. Investigation of what elements make film a unique art form through both textual and contextual analysis. 3 credit(s)

### FIS 200 - Film Analysis

Inquiry into what makes film a unique medium of expression through analysis of formal elements. Creative and research-oriented projects investigate film and its relationship with other art forms. Prerequisite(s): FIS 100 or 110. 3 credit(s)

### FIS 216 - Intro to Screenwriting

This course will introduce the student to the basics of screenwriting. It will involve the study of the three-act screenplay, format, plot, characterization, dialogue, theme, and scene dynamic. Study will include various short writing assignments, drafting of an outline, first draft and revised draft of 25-30 page screenplay. 3 credit(s)

### FIS 220 - Film Production I

Fundamentals of motion picture production including image composition, lighting, editing, and production planning in 16mm. Prerequisite(s): FIS 100, FIS 110. 3 credit(s)

### FIS 300 - Film Criticism

Analysis of feature films validated through research papers and oral presentations. Critical approaches surveyed include journalistic, humanist, auteurist genre, social science, historical, and theoretical. Prerequisite(s): FIS 100 and FIS 110. 3 credit(s)

### FIS 314 - Script Supervising and Continuity Style

Designed to teach the art and techniques of script supervising and continuity. Students will break down a script for pre-production and then cover the script supervisor's position on the set during shooting. By the end of the course, students will be well prepared to join any production team for film, TV, or commercials. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

### FIS 315 - Film Editing

Advanced course examining the theory, techniques, and practices of motion picture editing; use of standard editing equipment; and practical experience editing professional material. Prerequisite(s): FIS 220. 3 credit(s)

### FIS 316 - Advanced Nonlinear Film Editing

Prerequisite(s): FIS 315. 3 credit(s)

### FIS 317 - Film Sound

Practical course on the theory, art and techniques of film sound. Students work on projects involving dialogue and sound effects recording, post production sound editing and sound design. Prerequisite(s): FIS 315. 3 credit(s)

### FIS 320 - Filmmaking Fundamentals

Each filmmaker will create six short projects (3 silent and 3 with sound) using digital filmmaking technology. Working together as a team, students will be exposed to specific assignments that feature a broad spectrum of challenges using cinematic language and sequencing. Collaboration will be a central focus of the course. Prerequisite(s): FIS 220. 3 credit(s)

### FIS 325 - Staging for the Screen

Advanced course in directing for the screen. Examines the concepts of camera coverage, staging within the frame, camera movement, and provides experience analyzing and directing short scenes. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 326 - Cinematography**

Technical and aesthetic aspects of lighting design, composition, and operating explored through individual projects and in-class shoots. Students required to have access to a 35mm still camera. Prerequisite(s): FIS 220 and consent of instructor. 3 credit(s)

**FIS 327 - Film Production Design**

Examination and exploration of motion picture production design, focusing on its history, techniques, and practices. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 328 - Basic Grip and Electrical**

The basic of effective studio gripping and lighting. The class offers a thorough knowledge of equipment, safety and tools. Lectures are combined with hands on workshops to teach state of the art technique. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 329 - Cinematography II**

Prerequisite(s): FIS 326. 3 credit(s)

**FIS 330 - Pre-Production Approaches for Film and Video**

Examination and exploration of the pre-production cycle, emphasizing the integration of digital technology. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 332 - Working in Film and TV Industry**

Designed to prepare students for the 'real world' issues they will face as working artists in the entertainment industry. Through lecture, readings, assignments, interaction with visiting artists, and classroom exercises, students will expand Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 335 - Professional Film Production Methods**

Intensive workshop provides for weekly interaction with industry professionals. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 338 - Advanced Directing Workshop**

Specialized course is designed to teach junior and senior film majors advanced directing techniques. Topics covered: scene analysis, maximizing coverage, and eliciting truthful performances. This is a workshop-style class that will require students to direct assigned scenes, share critiques, and receive direct feedback. Prerequisite(s): FIS 220. May be repeated to a maximum of nine credits. 3 credit(s)

**FIS 339 - Acting for the Film Director**

An approach to acting for the screen, designed to teach film-directing students the ins and outs of the acting process. Prerequisite(s): FIS 100 or FIS 110. May be repeated to a maximum of nine credit. 3 credit(s)

**FIS 340 - Narrative Cinematography Workshop**

Advanced course for upper division students who wish to explore visual storytelling and collaborative techniques in the context of shooting narrative scripts. The course will function side by side with FIS 338 - Advanced Directing Workshop and the students enrolled in FIS 340 will serve as Cinematographers for projects inside and outside of class. Prerequisite(s): FIS 326 and consent of instructor. 3 credit(s)

**FIS 350 - Historical Survey of Screen Acting**

Covers the study of historical survey of screen acting from beginnings of film and television to present days. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 352 - Scene Work for Directors**

Covers the study of historical survey of screen acting from beginnings of film and television to present days. Introduces film student directors to script analysis and staging. Scene work directing will be required by all students. Students will leave this course with a better understanding on how to interpret the writer's intent and therefore enhance the story telling process. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 400 - Film Theory**

Leading theorists studied intensively through screening of feature films, readings in film theory, written analyses, and conference style oral presentations. Intended for film studies majors only. Prerequisite(s): FIS 100. 3 credit(s)

**FIS 409 - Politics and the Film**

(Same as PSC 400F) Analysis of the political film. Themes treated include political power, corruption, war, revolution, propaganda, political socialization, and participation. Note(s): Same as PSC 400F. 3 credit(s)

**FIS 410 - Major Figures in the Cinema**

Study of the works of major filmmakers through the auteur theory and other approaches. Different individuals studied each time course offered. Prerequisite(s): FIS 100. May be repeated to a maximum of nine credits. 3 credit(s)

**FIS 414 - Cinematic Structure**

Advanced course in the textual analysis of feature films. Prerequisite(s): FIS 100 or FIS110. 3 credit(s)

**FIS 415 - Story Development**

Basis of cinematic structure, emphasizing action, construction, tension, and character. Story development through motion picture formats. Prerequisite(s): FIS 220. Note(s): This course is crosslisted with FIS 615. Credit at the 600-level requires additional work. 3 credit(s)

**FIS 416 - Screenwriting I**

Study of the three-act screenplay, structure of dramatic scenes, and writing of a one hundred-twenty page first draft. Prerequisite(s): FIS 100 or FIS 110. May be repeated to a maximum of nine credits. 3 credit(s)

**FIS 417 - Screenwriting II**

Teaches rewriting of a screenplay. From first draft through problem solving and rewriting to a tight, workable script. Prerequisite(s): FIS 416. May be repeated to a maximum of six credits. 3 credit(s)

**FIS 418 - Writing for Television I**

With emphasis on the narrative exploration of the television hour-drama, students develop and complete one hour-drama spec script. Prerequisite(s): FIS 220. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with FIS 618. Credit at the 600-level requires additional work. 3 credit(s)

**FIS 419 - Writing for Television II**

As a continuation of FIS 418, students explore the television situation comedy and develop and complete one sit-com script. Prerequisite(s): FIS 418. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with FIS 619. Credit at the 600-level requires additional work. 3 credit(s)

**FIS 420 - The Short Film Workshop**

Medical Geology is the science surrounding the relationships among geological factors and health in humans, animals, and plants. This class focuses on the relationships between geology and human health. Prerequisite(s): FIS 220. May be repeated to a maximum of nine credits. 3 credit(s)

**FIS 422 - Short Film Archiving**

Covers the study of the short film in an archival context. Students will study the acquisition, preservation, presentation and organization of the short film archive collection. For the film history student, it exposes them to the short film from the beginning of motion pictures to the accomplished work of today's filmmakers. For the non-major, it exposes them to film history and the short film art form in specific. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 431 - Music Video**

Workshop-based class exploring music video. We will examine several types of the mixture of music and motion pictures in addition to looking at other art forms that can influence the music video. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 432 - Industry vs. Artistry in Film and Television**

Explores relationship between art and economics in film and television by examining industry structures, philosophies, and practices which shape contemporary mass entertainment. Prerequisite(s): Junior standing. Note(s): Same as COM 432. 3 credit(s)

**FIS 434 - Producing For Hire**

An introduction to the duties required of a producer hired to do a project. This course will cover the role and responsibility of the film producer in the areas of commercials, music videos, and film, encompassing areas from initial concept to pre-production through post-production. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 440 - The European Film**

Survey of the major movements and themes of European cinema and related literature. 3 credit(s)

**FIS 441 - Drama and Film of German Expressionism**

Examination of German film and literature of the 1910s and 1920s. Note(s): Same as GER 441. 3 credit(s)

**FIS 443 - From French Literature to Film**

From a condensed analysis of narrative techniques and structure of original literary sources toward a detailed study of the basic problems connected with the grammar of film. Students expected to read the original literary work in translation and/or script if available. Note(s): Same as FREN 443. 3 credit(s)

**FIS 444 - Documentary Film and Video**

Critical analysis of documentary film texts from historical and aesthetic perspectives. How non-fiction film differentiates itself from classical narrative and experimental/avant-garde film. 3 credit(s)

**FIS 445 - The Rise of Irish Cinema**

To engage the student in the analytical study of the growth of the Irish film industry as an artistic movement. Particular attention will be paid to historical, cultural and literary references. The class format will be lecture, viewing of motion picture and class discussion and analysis. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 446 - History of the Russian Film**

Soviet cinema from the revolutionary films and path-breaking theories of the 1920s (Eisenstein, Pudovkin, Vertov, Dovzhenko, and Kuleshov), through the constrictions of Socialist Realism, to the revival of a proud tradition in the decades since Stalin. Emphasis on Russian cultural traditions, contemporary historical context, and the demands of ideology. Note(s): Same as HIST 446. 3 credit(s)

**FIS 447 - Documentary Techniques**

A hands-on, part lecture, part workshop class exploring the making of verte (observational) style documentary films. The class will encourage students to focus on interesting, unique, and specific character behavior for the subjects of their future documentary films. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 448 - Master Directing**

The Master Class in Directing is for film students interested in artistic techniques in screen directing. The course gives the film students the tools to advance their film-making skills in order to break into the film industry. Prerequisite(s): FIS 220. This is a workshop style class which allows students to focus on different projects or techniques every semester; therefore the course is repeatable for up to 9 credits. 3 credit(s)

**FIS 449 - The History of French Film**

Survey and evolution of French film from silent to sound: surrealism, realism, and the New Wave. Includes the work of major filmmakers such as Clair, Renoir, Cocteau, Clouzot, Godard, Truffaut, etc. Films analyzed as works of art, social documents, and instruments of communication. Note(s): Same as FREN 449. 3 credit(s)

**FIS 450 - Directed Studies in Film**

The Master Class in Directing is for film students just beginning the UNLV film program or just finishing their film-making studies or anywhere in-between. The course gives the film student the tools to advance their film-making skills in order to break into the film industry. Prerequisite(s): FIS 100. May be repeated to a maximum of nine credits. 1-3 credit(s)

**FIS 453 - Co-Curricular Film Project**

Collaborative workshop in the production of short film in which selected students work to complete a project eligible for exhibition on the festival circuit. Prerequisite(s): FIS 220. May be repeated to a maximum of six credits. 3 credit(s)

**FIS 470 - Women in Film**

Survey of international women filmmakers. Emphasis on women directors and their films and women involved in other aspects of production, including screenwriting, editing, and acting. 3 credit(s)

**FIS 472 - Advanced Post Production Techniques**

This course is designed with the following objectives in mind: Provide students with a basic working knowledge of Adobe After Effects to create title sequences and visual effects. Provide students with intermediate and advanced knowledge of video color theory and color correction and shading techniques in a variety of software applications. Provide students with advanced knowledge of authoring DVDs in DVD Studio. Prerequisite(s): FIS 315. This is a workshop style class which allows students to focus on different projects or techniques every semester therefore the course is repeatable up to 9 credits. 3 credit(s)

**FIS 473 - 3D Visual Effects for Film**

Introduction to the fundamentals of integrating 3D computer graphics into live action film/video. This course focuses on the latest CGI software in the creation of three-dimensional computer graphics and compositing. The course also provides students with the theory and hands-on experience required to perform many of the tasks that make up today's professional VFX pipeline. This is a workshop style class which allows students to focus on different projects or techniques every semester therefore the course is repeatable up to 9 credits. Prerequisite(s): FIS 220. 3 credit(s)

**FIS 474 - Sex in the Cinema**

A survey of films with sexual themes and/or adult content. These will be analyzed from historical, cultural, industry and genre perspectives. DISCLAIMER These films contain nudity, sexual situations, and themes. If you are sensitive to or potentially offended by any of these issues then do not take this class. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 475 - Modern Latin American Film**

Cinematic treatments of modern Latin American socio-historical issues. Topics include industrialization, dictatorship and repression, redemocratization, and minority rights. Analysis of the Cinema Novo (Cinema Nueva) and post-Cinema Novo genres. Emphasis on Brazilian, Argentine, and Cuban films of the 1970s and 1980s. Prerequisite(s) Junior or senior standing, and consent of instructor. Note(s): Same as HIST 475. 3 credit(s)

**FIS 479 - Adaptation Stage to Screen**

Studies and evaluates how some classic plays were adapted and developed for the screen. Plays will be read and the adapted films will be screened. Discussions will be centered on whether the film or films captured the objective of the original play or whether it failed in its adaptation and most importantly why. Prerequisite(s): FIS 100 or FIS 110. 3 credit(s)

**FIS 485 - Screen Acting for a Living**

The Screen Acting for a Living class offers the film director the extended opportunity to learn the film acting craft through classroom scene work applied to screenplays and great dramatic texts. Many of the great dramas used in this class began on the stage and became great films. So much of today's film and television is so colloquial and lacking in the textual and sub-textual depth needed to ground the developing filmmakers. This class teaches fundamental analysis and application of that analysis in a truthful manner onscreen. Prerequisite(s): FIS 100 or FIS 110. The advanced script analysis work, close reading technique, and affective emotional memory components of the class applied to the scene work provides a repeatable workshop up to 9 credits for interested students to continue to develop their understanding of this craft. 3 credit(s)



**FIS 493 - Studies in British Film**

Study of the history of British film emphasizing analysis of a variety of films. Examines particular genres, directors, and traditions peculiar to British film and the relationship of British film to England's broader cultural development. Note(s): Same as ENG 476A. 3 credit(s)

**FIS 494 - History of the American Film**

Examination of the films of major directors from D.W. Griffith in the Biograph period (1908-1912) to the present. Film-makers such as John Ford, Howard Hawks, Orson Welles, George Cukor, Robert Flaherty, Frank Capra, Raoul Walsh, and others studied. May be repeated to a maximum of nine credits. Note(s): Same as ENG 476B. 3 credit(s)

**FIS 495 - Film and Literature**

Comparative study of the relations of prose, poetry, and drama to the structure and themes of the cinema, from Dickens to the present. Note(s): Same as ENG 477A. 3 credit(s)

**FIS 496 - American Hero in Film and Literature**

Traces the origins and the development of the American hero from roots in myth, folklore, and history to the 1950s. Note(s): Same as ENG 477B. 3 credit(s)

**FIS 497 - Genre Studies in Film**

Individual examinations of genre structures and themes, with emphasis on the development and the history of genres. May be repeated to a maximum of nine credits. Note(s) Same as ENG 477C. 3 credit(s)

# Music

***Purpose and Focus***

The mission of the Department of Music is to provide a professional artistic environment that supports programs of excellence in the education of musicians. Courses in music are designed to prepare graduates for professional music careers in teaching, performance, and composition and to enrich the cultural experience of all university students.

The Department of Music offers many music courses that may be selected by non-music majors to satisfy university and College of Fine Arts requirements. In addition, university students may participate in Department of Music ensembles. Membership in the department's instrumental and vocal ensembles is open to all university students by audition and/or consent of the instructor.

***Accreditation***

Northwest Commission on Colleges and Universities  
National Association of Schools of Music

***Undergraduate Majors***

Music — Bachelor of Arts

Music — Bachelor of Music

***Areas of Concentration*****Bachelor of Arts**

The Bachelor of Arts in Music, with concentrations in Recital or History and Literature, allows the student to pursue music as a major within the context of a liberal arts curriculum. The BA curriculum offers an intensive study of music as both an intellectual discipline and a performance art. Students pursuing this degree enroll in the same classes, ensembles, and private lessons as students in the Bachelor of Music program but have the opportunity to enroll in a maximum of 23 elective credits in other disciplines as part of the degree Bachelor of Arts in Music.

**Bachelor of Music**

The Bachelor of Music degree is offered in the following areas of concentration:

**Composition**

The Bachelor of Music degree in Composition, with training in composition, orchestration, and arranging, prepares students for professional work in music.

**Jazz Studies**

The Bachelor of Music degree in Jazz Studies, with special areas of interest in instrumental and vocal performance and/or composition, prepares students for a professional career in the field of jazz.

**Music Education**

The Bachelor of Music degree in Music Education, a five year program with special areas of interest in instrumental, vocal and piano, prepares the student for a career in public school music teaching while earning Nevada teacher certification.

## **Performance**

The Bachelor of Music degree in Performance, with special areas of interest in instrumental, vocal, and piano, prepares the student for a professional career in music.

All Bachelor of Music degrees provide thorough preparation for further study in music at the graduate level.

## **Admission to the Major**

The Department of Music requires a minimum GPA of 2.00 overall. A minimum GPA of 2.70 must be maintained in all music courses.

**Admission Policies:** New freshman should refer to the university requirements for admission. Each music major enrolling at UNLV for the first time must audition in the primary performance medium (principal instrument or voice classification) and must qualify for admission to MUSA lower- division applied study as specified in the course syllabus for this medium.

**Transfer Policies:** Transfer students must have earned at least a cumulative grade point average (GPA) of 2.50 in transferable college credits and 2.70 in the area of concentration. Transfer students must also audition in the appropriate primary performance medium (principal instrument or voice classification) and will be placed in the appropriate level of applied study based on the audition.

All entering freshman music majors and transfers from other institutions must take the Music Theory and Music History placement examinations for assignment to the appropriate level of music theory and music history study.

## **Department Policies**

**Principal Instrument/Voice Classification:** Each music major must declare, with the approval of the faculty of music, a primary performance medium (principal instrument or voice classification) or a primary and a secondary medium, depending upon the special area of interest selected. Each music major must audition in the primary performance medium prior to registration in order to qualify for admission to MUSA lower division of applied study. Those not qualifying must enroll in Applied Music for non-majors each semester until able to pass the audition. Applied lessons in the primary performance medium must be taken in sequence, beginning with lower-division applied music. Applied lessons may not be audited.

If a student chooses to change to another primary performance medium, the entire Principal Instrument/Voice Classification policy must be met for the new medium.

While enrolled in applied music lessons, each music major must perform regularly in studio and/or repertory class. Those enrolled in Applied Music III or above must perform on Convocation at the discretion of the instructor, but not less than once each semester.

Each music major, while enrolled in Applied Music for Majors, must appear before a departmental jury at the end of each semester for performance examination and grading recommendations. At the conclusion of Applied Music IV, the jury performance occurs before a committee representing the entire faculty of music. To advance to upper division applied study (Level V), the student must successfully complete four semesters of harmony, sight singing, and ear training and have made satisfactory progress toward his or her degree (see Satisfactory Progress).

Composition students enrolled in MUSA 451, Private Study in Composition, must present their work before a jury each semester.

**Piano Proficiency:** All undergraduate music majors must demonstrate piano proficiency as a requirement for graduation. The Department of Music will not approve a student's Graduation Application until notification is received from the piano faculty that the student has passed the Piano Proficiency Examination. For students majoring in Music Education, the Piano Proficiency Examination is part of the student teaching endorsement. The Department of Music will not accept an application for student teaching placement until the student has passed the Piano Proficiency Examination. (NB: Music Education/Vocal students must complete two additional semesters of private piano instruction after passing the Piano Proficiency Examination and before beginning the student teaching experience. Students may not complete this requirement during the student teaching semester.)

Music majors must demonstrate satisfactory progress in their degree through concurrent registration in harmony, sight singing, ear training, and functional piano until these course sequences are completed. Accordingly, music majors enrolled initially in first-year music theory (MUS 201E) must concurrently enroll in Functional Piano I (MUS 109) and continue until the Functional Piano course sequence is completed. Functional Piano courses must be taken in sequence. A grade of 'C' or above is required in each Functional Piano course.

Transfer students and students with accomplished piano skills are placed in the appropriate Functional Piano course after demonstrating sufficient keyboard skills to the piano faculty. These same students may also choose a one-time opportunity to take the Piano Proficiency Examination (MUS 167) in lieu of enrolling in the Functional Piano sequence. However, if the Piano Proficiency Examination is not passed, the student is then placed in the appropriate Functional Piano course and must complete the sequence and retake the Piano Proficiency Examination.

When enrolling in Functional Piano IV (MUS 210), the student must also concurrently enroll in Piano Proficiency Examination (MUS 167). The Piano Proficiency Examination is separate from the Functional Piano course sequence. The sequence prepares the student for the Piano Proficiency Examination, but successful completion of the sequence does not exempt the student from the obligation to pass the Piano Proficiency Examination. However, students maintaining a grade of 'B' or above in each of the four Functional Piano courses are exempt from taking the Piano Proficiency Examination.

Members of the piano faculty administer the Piano Proficiency Examination during the Final Examination period at the conclusion of the fall and spring terms. The Examination is not scheduled at any other time during the academic term and no Examination is administered in summer.

**Music Theory Placement Examination:** All entering freshman music majors and transfers from other institutions must take the music theory placement examination for assignment to the appropriate level of music theory study. The examination consists of written harmony, dictation, and sight singing. Students not qualifying for placement in MUS 201, as determined by this examination, are required to take MUS 102. All other students will be assigned according to their demonstrated proficiency.

**Music History Placement Examination:** All entering freshman music majors and transfers from other institutions must take the Undergraduate Music History Placement Examination during the fall semester to evaluate students' basic music historical literacy

and competence and ensure that students enroll in appropriate music history courses. The date and time of the Examination will be announced each academic year. A grade of 70 out of the Examination's 100 points is a passing grade. Students who pass the Examination may enroll, at their earliest convenience and on the advice of their advisors, in the MUS 341-343 sequence. A student who does not pass the Examination must enroll in MUS 131 before enrolling in the MUS 341-343 sequence. Students who show deficiencies in the essay portion of the exam may also be counseled to seek assistance with their language and writing skills.

**Recital Attendance:** For each semester of degree residence as a music major, every student must enroll in MUS 100, for a maximum of eight semesters, and attend a minimum of 10 approved on-campus concerts and/or recitals each semester as a member of the audience. Students not fulfilling this requirement will not be approved for graduation.

**Ensemble Requirements:** Ensemble participation is open to all students including non-degree seeking and or part time students. All students must audition for ensemble participation. Auditions will be held prior to the start of Fall and Spring semesters. Contact the ensemble director or area coordinator for audition times and places. Music majors are required to participate each semester of full-time enrollment in an ensemble appropriate both to their degree program and to their major instrument beginning with the first semester of full-time study. In the case where a designated ensemble of choice does not exist for the student (based on audition results) the student will consult with the primary applied professor to receive approval to enroll in an alternative ensemble. Students holding scholarships will consult the primary applied professor/area coordinator and ensemble director to determine/receive an alternative ensemble assignment.

Full-time students enrolled beyond their prescribed four-year (performance) or five-year (music education) degree time frame will continue to enroll in a minimum of one ensemble per semester until graduation.

Music students receiving department of music scholarship support must participate in a minimum of two (2) ensembles each semester of full-time enrollment. In order to meet scholarship requirements, ensemble instrumentation or music departmental needs students that participate in more than two (2) ensembles must receive permission from the applied instructor and the music department chair. Consult the Undergraduate Catalogue for specific participation requirements in your degree program.

For students transferring to UNLV: The UNLV Department of Music will accept one ensemble credit for each semester taken at another institution, as approved by the student's area coordinator. UNLV Department of Music will accept no more than a total of four (4) ensemble credits from another institution.

**Primary Ensembles:** Ensembles satisfying this category are as follows: a regular rehearsal schedule encompassing two or more days per week with a minimum of 2 ½ hours rehearsal time per week. Ensembles in this tier are designed to deliver instruction of advanced repertoire and pedagogical concepts to students possessing requisite musicianship and skill levels.

**Secondary Ensembles:** Ensembles in this category are as follows: a regular rehearsal schedule encompassing one to two days per week with a minimum of 1 ½ hours of rehearsal time per week. Ensembles in this tier are usually conducted and are designed to deliver instruction of mid-level repertoire and pedagogical concepts that will assist students to continue to develop skills or provide service to the music department.

**Chamber Ensembles:** Ensembles satisfying this category are as follows: a regular rehearsal schedule encompassing one to two days per week with a minimum of 1 ½ hours rehearsal time per week. Distinctive characteristics in this category are small ensembles with one instrument or voice per part (trios, quartets, etc.) or small ensembles of like instruments. These ensembles are frequently coached and not conducted.

**Satisfactory Progress:** To ensure satisfactory progress toward completion of the degree, students must register concurrently for harmony, sight singing, ear training, and functional piano each semester until these course sequences are completed. A minimal grade point average of 2.70 must be maintained in all music courses except where noted by individual degree programs.

**Outcomes:** Students successfully completing undergraduate degrees offered by the Department of Music will have acquired competencies sufficient to enter the job market in their areas of concentration. Performance majors are prepared to begin building careers as professional performers or private teachers. Music education graduates earn for teaching music in the state of Nevada and promise for success as school music teachers. All degrees in the Department of Music offer thorough preparation for success in graduate music programs.

## ***Advising***

Freshman, sophomore and transfer students are advised in the College of Fine Arts Advising Center. Juniors and seniors are assigned an advisor in the Department of Music. Students meet with their advisor once per semester, at which time an advising sheet is completed for the student's department file. In the event a student is not assigned to an advisor contact the department chair. Variable elective credits must be approved by the student's advisor.

## **Music Major - Bachelor of Arts (BA)**

Please see the UNLV College of Fine Arts - Department of Music web page at [music.unlv.edu/](http://music.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - National Association of Schools of Music [nasm.arts-accredit.org/](http://nasm.arts-accredit.org/)

## ***Learning Objectives***

1. Perform in one primary performance medium, at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;

2. Demonstrate broad working knowledge of the solo repertoire for their primary performance medium, at a level appropriate for the area of specialization, and display essential skills to interpret a range of styles within that repertoire;
3. Perform in solo and ensemble (large and small) settings at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
4. Read solo and ensemble (large and small) literature at sight with fluency demonstrating both general musicianship and, in the primary performance medium, a skill level relevant to professional standards appropriate for the area of concentration;
5. Demonstrate in written, verbal, aural, and visual methods knowledge of styles, composers, genres, forms and processes of Western European art music through present time, including contributions to this tradition made by composers of both genders and multicultural societies;
6. Demonstrate knowledge of the principles of harmony, musical form, and compositional process, and the ability to use this knowledge in written, verbal, aural, and visual analyses;
7. Demonstrate fluency in written fundamentals and aural comprehension of music theory (including aural dictation);
8. Synthesize performance, historical, stylistic, analytical, and technological information to solve artistic problems and form musical interpretations, and convincingly communicate these solutions and interpretations in written, verbal, aural, and visual methods.

#### University Graduation Requirements

- Please see Graduation Policies for complete information.
- Music Degree Requirements..... Total: 120 Credits
- General Education Requirements..... Subtotal: 37-40 Credits
- First-Year Seminar ..... Credits: 2-3
- English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3
- Constitutions ..... Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
- or
- PSC 101 - Introduction to American Politics
- Mathematics..... Credits: 3
- Distribution Requirement ..... Credits: 19
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
    - Automatically satisfied by Major requirements
  - Social Science: 9 credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking: 10 credits
    - Two courses from Life and Physical Science; at least one course must have a lab
    - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning
- Multicultural and International
- Multicultural fulfilled by:
- MUS 345 - Jazz History
- or
- MUS 348 - Issues in American Music
- International fulfilled by:
- MUS 342 - Music History II

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

#### Major Requirements - Music Major -

Recital Concentration ..... Subtotal: 50 Credits

Music Requirements ..... Credits: 50

Applied lessons 6 semesters (levels I-VI)

- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 399 - Junior Recital
- MUS 495 - Independent Study (Recital & Document)

and required ensemble (semesters 1-8) assigned by the department.

Music Electives..... Credits: 10

Other Electives..... Credits: 20-23

Total Credits: ..... 120

#### Major Requirements - BA in Music - History and Literature Concentration ..... Subtotal: 46 Credits

Music Requirements ..... Credits: 46

Applied lessons 4 semesters (levels I-IV)

- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 167 - Piano Proficiency
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- MUS 495 - Independent Study (Sr. Research Paper)

Ensembles: Students must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.



Music Electives..... Credits: 14  
 Other Electives..... Credits: 20-23  
 Total Credits: ..... 120

## Notes

1. If students choose to take a foreign language, six credits must be taken and in the same language.
2. Senior project advisor to be determined during junior year.
3. Music electives to be taken in applied music, history, literature, theory, or conducting.
4. The Bachelor of Arts in Music will not satisfy certification requirements for music education.

## Music Major - Bachelor in Music (B.Mus)

Please see the College of Fine Arts web page at [www.unlv.edu/finearts](http://www.unlv.edu/finearts) for information about department programs, faculty and facilities.

Please see advising information at the College of Fine Arts Advising at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

Program - National Association of Schools of Music [nasm.arts-accredit.org/](http://nasm.arts-accredit.org/)

## Learning Outcomes

Students graduating from the UNLV Department of Music with a Bachelor of Arts degree will:

1. perform in one primary performance medium, at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
2. demonstrate broad working knowledge of the solo repertoire for their primary performance medium, at a level appropriate for the area of specialization, and display essential skills to interpret a range of styles within that repertoire;
3. perform in solo and ensemble (large and small) settings at a level appropriate for the area of specialization, with sufficient technical and musical skills requisite for artistic self-expression;
4. read solo and ensemble (large and small) literature at sight with fluency demonstrating both general musicianship and, in the primary performance medium, a skill level relevant to professional standards appropriate for the area of concentration;
5. demonstrate in written, verbal, aural, and visual methods knowledge of styles, composers, genres, forms and processes of Western European art music through present time, including contributions to this tradition made by composers of both genders and multicultural societies;
6. demonstrate knowledge of the principles of harmony, musical form, and compositional process, and the ability to use this knowledge in written, verbal, aural, and visual analyses;
7. demonstrate fluency in written fundamentals and aural comprehension of music theory (including aural dictation);
8. utilize the piano for personal music study and instruction;
9. synthesize performance, historical, stylistic, analytical, and technological information to solve artistic problems and form musical interpretations, and convincingly communicate these solutions and interpretations in written, verbal, aural, and visual methods.

10. develop and plan for instruction in P-12 settings (Music Education Only)
11. facilitate the technical development and artistic growth of students' musical skills through appropriate pedagogical techniques and methodologies (Music Education Only).

## University Graduation Requirements

- Please see Graduation Policies for complete information

Music Major - Bachelor of Music

Music Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 37-40

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 3

Distribution Requirement: ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts
  - Automatically satisfied by Major requirement
- Social Science: 9 Credits
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural fulfilled by:

- MUS 345 - Jazz History

or

- MUS 348 - Issues in American Music

International fulfilled by:

- MUS 342 - Music History II

or

- MUS 343 - Music History III

## Major Requirement - B.Mus in Music -

Composition/Instrumental..... Subtotal: 80 Credits

Music Core Requirements ..... Total Credits: 31

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Student must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

Instrumental Requirements..... Credits: 46  
 (see note 1 below)

Applied lessons 6 semesters (levels I-VI)

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 113 - Fundamentals of Music Composition I
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 213 - Fundamentals of Music Composition II
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408\* - Form and Analysis
- MUS 465 - Advanced Orchestration
- MUS 499\* - Senior Recital
- MUSA 165 - Piano for Non-Majors (4 credits)
- MUSA 451 - Private Composition (12 credits)

(see notes 2 and 3 below)

Music History or Theory Elective ..... Credits:6  
Total Credits: ..... 120

### Notes

1. Students must complete MUS 109, MUS 110, MUS 209, and MUS 210 or show proficiency.
2. Optional Jazz Emphasis — MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA Jazz Lessons (6 credits). May use three credits of MUSE 131, MUSE 431 to fulfill ensemble requirement of 3 credits. 20 credits.
3. Composition majors must fulfill Theory/Musicianship courses (MUS 102, MUS 201E, MUS 201F, MUS 202E, MUS 202F, MUS 304E, MUS 304F, MUS 404E and MUS 404F) with a minimum grade of B-.

## Composition/Piano Concentration

### Major Requirement - B.Mus in Music -

**Composition/Piano** ..... Subtotal: 80 Credits

Music Core Requirements ..... Credits: 37

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Student must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

Piano Requirements ..... Credits: 40

Applied lessons 6 semesters (levels I-VI)

- MUS 113 - Fundamentals of Music Composition I
- MUS 213 - Fundamentals of Music Composition II
- MUS 365 - Beginning Orchestration
- MUS 372 - Advanced Instrumental Conducting
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408\* - Form and Analysis

- MUS 465 - Advanced Orchestration
- MUS 499\* - Senior Recital
- MUSA 451 - Private Composition (12 credits)

Music Applied for non-majors Elective ..... Credits: 6

Music History or Theory Elective ..... Credits: 6

Total Credits: ..... 120

### Notes:

1. Students must complete MUS 109, MUS 110, MUS 209, and MUS 210 or show proficiency.
2. Optional Jazz Emphasis - MUS 251, MUS 257, MUS 258, MUS 345, MUS 359. MUSA Jazz Lessons (6 credits). May use three credits of MUSE 131, MUSE 431 to fulfill ensemble requirement. 20 credits.
3. Composition majors must fulfill Theory/Musicianship courses (MUS 102, MUS 201E, MUS 201F, MUS 202E, MUS 202F, MUS 303E, MUS 303F, MUS 304E, MUS 404E, MUS 404F ) with a minimum grade of B-.

## Music Major - Composition/Vocal Concentration

### Major Requirements - B.Mus in Music -

**Composition/Vocal** ..... Subtotal 77 Credits

Music Core Requirements ..... Credits: 34

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Students must enroll in at least one ensemble per semester for a total of 8 ensemble credits as assigned by department.

Vocal Requirements ..... Credits: 46

(see note 1 below)

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 113 - Fundamentals of Music Composition I
- MUSA 145 - Voice I
- MUSA 146 - Voice II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 213 - Fundamentals of Music Composition II
- MUSA 245 - Voice III
- MUSA 246 - Voice IV
- MUSA 345 - Voice V
- MUSA 346 - Voice VI
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital Applied
- MUS 401 - Counterpoint
- MUS 408\* - Form and Analysis
- MUS 465 - Advanced Orchestration
- MUS 499\* - Senior Recital - Applied
- MUSA 165 - Piano for Non-Majors (4 credits)

- MUSA 451 - Private Composition

(see notes 2 and 3 below)

Music History Elective ..... Credits: 3

Total Credits: ..... 120-123

#### Notes:

1. Students must complete MUS 109, MUS 110, MUS 209, MUS 210 or show proficiency.
2. Optional Jazz Emphasis — MUS 251, MUS 258, MUS 345, MUS 358, MUS 359. May use three credits of MUSE 135, MUSE 435, to fulfill ensemble requirement. 17 credits.
3. Composition majors must fulfill Theory/Musicianship courses (MUS 102, MUS 201E, MUS 201F, MUS 202E, MUS 202F, MUS 304E, MUS 304F, MUS 404E and MUS 404F) with a minimum grade of B-.

### Music Major - Jazz Studies/Composition

#### Major Requirements - B.Mus in Music -

**Jazz Studies/Composition** ..... Subtotal: 83 Credits

Music Core Requirements ..... Credits: 39

- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Students must enroll in two ensembles each semester for 8 semesters. One credit must be MUSE 131, MUSE 133, MUSE 431, MUSE 433 or other ensemble with approval of jazz studies area advisor.

Composition Requirements ..... Credits: 44

Applied lessons 4 semesters (levels I-IV)

- MUS 231 - Recording Technology I
- MUS 251 - Jazz Fundamentals
- MUS 257 - Jazz Keyboard
- MUS 258 - Elementary Jazz Improvisation
- MUS 345 - Jazz History
- MUS 357 - Jazz Form and Analysis
- MUS 358 - Advanced Jazz Improvisation
- MUS 359 - Beginning Jazz Arranging and Composition
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 451\* - Jazz Band Methods
- MUS 457 - Jazz Keyboard Seminar
- MUS 490 - Music Internship
- MUS 459\* - Advanced Jazz Arranging and Composition
- MUS 499\* - Senior Recital
- MUSA 453 - Private Jazz Arranging and Composition (4 semesters)

Total Credits: ..... 120-123

### Jazz Studies/Performance

#### Major Requirement - B.Mus in Music - Jazz Studies/

**Performance Concentration** ..... Subtotal: 83 Credits

Music Core Requirements ..... Credits: 39

- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting
- MUSE 131 - Jazz Ensemble
- MUSE 133 - Jazz Combo

Ensembles: Students must enroll in two ensembles each semester for 8 semesters. One credit must be MUSE 131, MUS 133, MUSE 431, MUSE 433 or other ensemble with approval of jazz studies area advisor.

Choose either Instrumental Performance or Jazz Vocal to complete Major Requirements.

Instrumental Requirements ..... Credits: 44

Applied lessons 8 semesters (levels I-VIII)

- MUS 231 - Recording Technology I
- MUS 251 - Jazz Fundamentals
- MUS 257 - Jazz Keyboard
- MUS 258 - Elementary Jazz Improvisation
- MUS 345 - Jazz History
- MUS 357 - Jazz Form and Analysis
- MUS 358 - Advanced Jazz Improvisation
- MUS 359 - Beginning Jazz Arranging and Composition
- MUS 451\* - Jazz Band Methods
- MUS 457 - Jazz Keyboard Seminar
- MUS 459\* - Advanced Jazz Arranging and Composition
- MUS 490 - Music Internship

Jazz Vocal Performance Requirements ..... Credits: 44

Applied lessons 8 semesters (levels I-VIII)

- MUS 231 - Recording Technology I
- MUS 235 - Finale TM: An Introduction
- MUS 251 - Jazz Fundamentals
- MUS 257 - Jazz Keyboard
- MUS 258 - Elementary Jazz Improvisation
- MUS 345 - Jazz History
- MUS 357 - Jazz Form and Analysis
- MUS 358 - Advanced Jazz Improvisation
- MUS 359 - Beginning Jazz Arranging and Composition
- MUS 360 - Advanced Jazz Vocal Arranging and Composition
- MUS 417\* - Vocal Pedagogy
- MUS 457 - Jazz Keyboard Seminar
- MUS 459\* - Advanced Jazz Arranging and Composition
- MUS 490 - Music Internship

Total Credits: ..... 120

## Music Education/Instrumental Concentration

Guitar and Piano students take the following:

Students whose primary instrument is guitar or piano must choose either the vocal or instrumental music education track.

The following curriculum applies for Instrumental Music Education:

Music Core Requirements ..... Total Credits: 33

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

MUSE — Choral Ensemble - 1 cr.

MUSE — Choral Ensemble - 1 cr.

and required ensemble (semesters 1-8) assigned by the department.  
- 8 cr.

Education Core Requirements..... Credits: 24

- MUS 481E - Elementary Supervised Student Teaching: Music
- MUS 481S - Secondary Supervised Student Teaching: Music
- EPY 451 - Foundations of Educational Assessment
- EDSP 411 - Students with Disabilities in General Education Settings
- EDSP 432 - Serving Individuals with Disabilities and Their Families
- EDU 280 - Valuing Cultural Diversity

Instrumental Requirements..... Credits: 49

Applied lessons 6 semesters (level I-VI)

- MUS 105 - Vocal Techniques
- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 271 - Introduction to Music Education
- MUS 372 - Advanced Instrumental Conducting
- MUS 375 - Instrumental Methods
- MUS 376 - Choral Methods
- MUS 378 - Teaching General Music
- MUS 385 - String Class Methods
- MUS 386 - Percussion Class Methods
- MUS 387 - Brass Class Methods
- MUS 388 - Woodwind Class Methods
- MUS 391 - Teaching of Marching Band Techniques
- MUS 408\* - Form and Analysis
- MUS 451\* - Jazz Band Methods
- MUS 452A - Practicum I: General Music
- MUS 452B - Practicum II: Choral/Vocal
- MUS 452C - Practicum 3: Instrumental

OPTION: Instrumental students who want to include a jazz option must add the following courses beyond the degree requirements (Credits: 20)

- MUS 251 - Jazz Fundamentals
- MUS 257 - Jazz Keyboard

- MUS 258 - Elementary Jazz Improvisation
- MUS 345 - Jazz History
- MUS 359 - Beginning Jazz Arranging and Composition (1 semester)

MUSA - Jazz Lessons Level 1, 2 credits

MUSA - Jazz Lessons Level 11, 2 credits

MUSA - Jazz Lessons Level 111, 2 credits

MUSE - Jazz Ensemble (2 lg/ 1 sm), 3 Credits

Total Credits: ..... 143-146

### Notes:

1. Every student must pass MUS 167 Piano Proficiency before registering for MUS 399 and student teaching.
2. In order to teach, students must have an overall grade point average (GPA) of 2.75 or higher and no grade below C, passing scores on the PPST, completion of all professional course requirements and complete the required fingerprinting.

## Music Education/Piano Concentration

Multicultural and International

Multicultural fulfilled by:

- EDU 280 - Valuing Cultural Diversity

International fulfilled by:

- MUS 342 - Music History II

Major Requirements - B.Mus in Music Education/

Piano Concentration ..... Subtotal: 91-96

(see note 1 below)

- MUS 100 - Concert Attendance
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

and required ensemble 10 credits assigned by the department, two of which are Choral Ensemble

Education Core Requirements..... Credits: 21

- EDU 280 - Valuing Cultural Diversity
- EPY 451 - Foundations of Educational Assessment
- EDSP 411 - Students with Disabilities in General Education Settings
- MUS 481S - Secondary Supervised Student Teaching: Music

Guitar and Piano students take the following:

Students whose primary instrument is guitar or piano must choose either the vocal or instrumental music education track. The following curriculum applies:

Music Education Instrumental Requirements: ..... Credits: 37-42

Piano Requirements..... Credits: 41

- MUS 143 - Diction for Singers I
- MUS 273 - Choral Conducting Lab (2 semesters - 1 credit each)
- MUS 373 - Advanced Choral Conducting (2 semesters - 1 credit each)
- MUS 374 - Introduction to Orff Schulwerk



- MUS 376 - Choral Methods
  - MUS 378 - Teaching General Music
  - MUS 385 - String Class Methods
  - MUS 386 - Percussion Class Methods
  - MUS 387 - Brass Class Methods
  - MUS 388 - Woodwind Class Methods
  - MUS 398 - Junior Recital Music Education (see note 2 below)
  - MUS 408\* - Form and Analysis
  - MUS 414\* - Choral Literature
  - MUS 417\* - Vocal Pedagogy
  - MUS 452A - Practicum I: General Music
  - MUS 452B - Practicum II: Choral/Vocal (Choral)
  - MUS 372 - Advanced Instrumental Conducting
  - MUS 375 - Instrumental Methods
  - MUS 391 - Teaching of Marching Band Techniques
  - MUS 452B - Practicum II: Choral/Vocal (Instrumental)
  - MUS 452C - Practicum 3: Instrumental Band (MUSE 113-120/413-420, 2 semesters)
  - MUS 452C - Practicum 3: Instrumental Orchestra (MUSE 121/421, 2 semesters)
  - MUS 399 - Junior Recital
- Total Credits: ..... 128-136

#### Notes:

1. Every student must pass MUS 167 - Piano Proficiency before registering for MUS 398 - Junior Recital Music Education and student teaching.
2. In order to teach, students must have an overall grade point average (GPA) 2.75 or higher and no grade below C, passing scores on the PPST, completion of all professional course requirements and complete the required fingerprinting.

### Music Major - Music Education/Vocal Concentration

Multicultural and International

Multicultural fulfilled by:

- EDU 280 - Valuing Cultural Diversity

International fulfilled by:

- MUS 342 - Music History II

Major Requirement - B.Mus in Music -

Music Education/Vocal Concentration.....Subtotal: 110 Credits (see note 1 below)

Guitar and Piano students take the following:

Students whose primary instrument is guitar or piano must choose either the vocal or instrumental music education track.

The following curriculum applies for Vocal Music Education:

Music Core Requirements ..... Total Credits: 32

- MUS 100 - Concert Attendance (8 semesters - 0 credits)
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

- MUSE 377 - Orff Ensemble
- and required ensemble (semesters 1-8) assigned by the department.
- Education Core Requirements..... Total Credits: 24
- MUS 481E - Elementary Supervised Student Teaching: Music
  - MUS 481S - Secondary Supervised Student Teaching: Music
  - EPY 451 - Foundations of Educational Assessment
  - EDSP 411 - Students with Disabilities in General Education Settings
  - EDSP 432 - Serving Individuals with Disabilities and Their Families
- Vocal Requirements ..... Credits: 54
- Applied lessons 6 semesters (level I-VI)
- MUS 109 - Functional Piano I
  - MUS 110 - Functional Piano II
  - MUS 143 - Diction for Singers I
  - MUS 144\* - Diction for Singers II
  - MUS 209 - Functional Piano III
  - MUS 210 - Functional Piano IV
  - MUS 271 - Introduction to Music Education
  - MUS 373 - Advanced Choral Conducting
  - MUS 375 - Instrumental Methods
  - MUS 376 - Choral Methods
  - MUS 378 - Teaching General Music
  - MUS 385 - String Class Methods
  - MUS 386 - Percussion Class Methods
  - MUS 387 - Brass Class Methods
  - MUS 388 - Woodwind Class Methods
  - MUS 391 - Teaching of Marching Band Techniques
- or

MUS 451\* - Jazz Band Methods

- MUS 399 - Junior Recital
- MUS 408\* - Form and Analysis
- MUS 414\* - Choral Literature
- MUS 417\* - Vocal Pedagogy
- MUS 452A - Practicum I: General Music
- MUS 452B - Practicum II: Choral/Vocal
- MUS 452C - Practicum 3: Instrumental
- MUSA 300 - Piano for Music Educators (2 semesters)

OPTION: Vocal students who want to include a jazz option must add the following courses beyond the degree requirements (Credits: 20)

- MUS 251 - Jazz Fundamentals
- MUS 257 - Jazz Keyboard
- MUS 258 - Elementary Jazz Improvisation
- MUS 345 - Jazz History
- MUS 359 - Beginning Jazz Arranging and Composition (1 semester)

MUSA - Jazz Lessons Level 1, 2 credits

MUSA - Jazz Lessons Level 11, 2 credits

MUSA - Jazz Lessons Level 111, 2 credits

MUSE - Jazz Ensemble (2 lg/ 1 sm.)

Total Credits: ..... 147

#### Notes:

1. Every student must pass MUS 167 Piano Proficiency before registering for MUS 399 and student teaching.
2. In order to teach, students must have an overall grade point average (GPA) of 2.75 or higher and no grade below C, passing scores on the PPST, completion of all professional course requirements and complete the required fingerprinting.

## Performance/Instrumental

Multicultural and International

Multicultural fulfilled by:

- MUS 345 - Jazz History I

or

- MUS 348 - Issues in American Music

International fulfilled by:

- MUS 342 - Music History II

Major Requirements - B.Mus in Music Performance/

Instrumental Concentration .....Subtotal: 68 Credits

Music Core Requirements ..... Credits: 36

- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Students must enroll in at least one ensemble per semester for a total of 10 ensemble credits which includes two chamber music ensembles and four semesters of MUSE 172 - Accompanying (see below) as assigned by department.

Instrumental Requirements ..... Credits: 32

Applied lessons 8 semesters (level I-VIII)

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408\* - Form and Analysis
- MUS 419\* - Instrumental Pedagogy

or

- MUS 470 - Endangered Instrument Project Teaching Practicum
- MUS 480\* - The Healthy Musician
- MUS 499\* - Senior Recital

Applied lessons 8 semesters (levels I-VIII)

Music History Elective ..... Credits: 3

Music Business Elective ..... Credits: 2-3

Music Electives ..... Credits: 6

Other Electives ..... Credits: 3

Total Credits: ..... 120-123

### Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210 or show proficiency.
2. Optional Jazz Emphasis MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA \_\_\_\_ Jazz Lesson (6 credits). May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 13 credits.

## Performance/Piano

Multicultural and International

Multicultural fulfilled by:

- MUS 345 - Jazz History I

or

- MUS 348 - Issues in American Music

International fulfilled by:

- MUS 342 - Music History II

Major Requirement - B.Mus in Music Performance/

Piano Concentration .....Subtotal: 67 Credits

Music Core Requirements ..... Total Credits: 36

- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

Ensembles: Student must enroll in at least one ensemble per semester for a total of 10 ensemble credits which includes two chamber music ensembles and four semesters of MUSE 172 - Accompanying (see below) as assigned by department.

- MUSE 172 - Accompanying (4 semesters)  
(see below) as assigned by department

Piano Requirements ..... Credits: 34

Applied lessons 8 semesters (level I-VIII)

- MUS 331 - Piano Literature I
- MUS 332 - Piano Literature II
- MUS 365 - Beginning Orchestration
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 405 - Keyboard Harmony
- MUS 408\* - Form and Analysis
- MUS 418\* - Piano Pedagogy
- MUS 499\* - Senior Recital

Music History Elective ..... Credits: 3

Music Business Elective ..... Credits: 2-3

Other Electives ..... Credits: 10

Total Credits: ..... 120

### Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210, or show proficiency.
2. Optional Jazz Emphasis - MUS 251, MUS 257, MUS 258, MUS 345, MUS 359. May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 20 credits.

## Performance/Vocal

Multicultural and International

Multicultural fulfilled by:

- MUS 345 - Jazz History I

or

- MUS 348 - Issues in American Music

International fulfilled by:

- MUS 342 - Music History II

Major Requirement - B.Mus in Music -

Performance/Vocal Concentration.....Subtotal: 83 Credits

(see note 1 below)

- MUS 100 - Concert Attendance
- MUS 139 - Introduction to Music Technology
- MUS 167 - Piano Proficiency
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF
- MUS 303E - Advanced Musicianship IE
- MUS 303F - Advanced Musicianship IF
- MUS 304E - Advanced Musicianship IIE
- MUS 304F - Advanced Musicianship IIF
- MUS 341 - Music History I
- MUS 342 - Music History II
- MUS 343 - Music History III
- MUS 362 - Beginning Conducting

and required ensemble (semesters 1-8) assigned by the department.

Vocal Requirements ..... Credits: 49

Applied lessons 8 semesters (levels I-VIII)

- MUS 109 - Functional Piano I
- MUS 110 - Functional Piano II
- MUS 143 - Diction for Singers I
- MUS 144\* - Diction for Singers II
- MUS 209 - Functional Piano III
- MUS 210 - Functional Piano IV
- MUS 399 - Junior Recital
- MUS 401 - Counterpoint
- MUS 408\* - Form and Analysis
- MUS 417\* - Vocal Pedagogy
- MUS 426\* - Vocal Literature
- MUS 499\* - Senior Recital
- FREN 113 - Elementary French I
- FREN 114 - Elementary French II

or

- GER 113 - Elementary German I
- GER 114 - Elementary German II

or

- ITAL 113 - Elementary Italian I
- ITAL 114 - Elementary Italian II

(1 year of the same foreign language) ..... Credits: 6

Music History Elective ..... Credits: 3

FREN 113, GER 113, or ITAL 113..... Credits: 3  
(1 semester of a different foreign language than above)

Total Credits: ..... 120

### Notes:

1. Students must complete MUS 109, MUS 110, MUS 209 and MUS 210 or show proficiency.
2. Optional Jazz Emphasis MUS 251, MUS 257, MUS 258, MUS 345, MUS 359, MUSA \_\_\_\_ Jazz Lessons. May use three credits of MUSE 131/MUSE 431 to fulfill ensemble requirement. 20 credits.

## Minor

### Music Minor

The music minor offers students an opportunity to acquire basic knowledge of music theory, music history, and performance skills.

Courses Include ..... Total Credits: 26

The Music Minor includes:

- MUS 100 - Concert Attendance (two semesters)
- MUS 131 - Introduction to Music Literature
- MUS 201E - Basic Musicianship IE
- MUS 201F - Basic Musicianship IF
- MUS 202E - Basic Musicianship IIE
- MUS 202F - Basic Musicianship IIF

two semesters of applied music at two credits each; two credits of ensemble; and 12 credits of upper-division electives selected from the following: applied study (maximum of four credits), ensemble (maximum of four credits), music theory /history (maximum of six additional credits), music education (maximum of three credits), music technology (maximum of three credits), and conducting (maximum of four credits).

### Music Technology Minor

Courses Include ..... Total Credits: 24

The music technology minor offers students knowledge of using modern technology to create and record music for different media platforms such as CD/DVD, video and Internet. Courses emphasize hands-on experience.

The music technology minor Includes:

- MUS 139 - Introduction to Music Technology
- MUS 230 - Music Technology II
- MUS 231 - Recording Technology I
- MUS 232 - Recording Technology II
- MUS 239 - Virtual Studio Technology
- MUS 319 - Multimedia for the Professional
- MUS 320 - Large Console Recording
- MUS 321 - Studio Recording III
- MUS 433 - Advanced HD and Surround Sound
- MUSA 133 - MIDI for Music Technology
- MUSA 233 - Advanced Concepts in Computer Music

## Music

### MUS 100 - Concert Attendance

Attendance at least ten on-campus concerts and/or recitals as a member of the audience. Note(s): Required of every music major each semester throughout degree residency, to a maximum of eight semesters. (Fee equivalency: 0 credit(s))

### MUS 101 - Music Fundamentals

Introduction to music reading. Study of notation, rhythm, scales, intervals, and chords with emphasis on ear training. Recommended for elementary education majors and anyone interested in learning to sing or play an instrument. Note(s): Open to non-majors only. 3 credit(s)

### MUS 102 - Beginning Music Theory

Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Rudimentary harmony, notation, scales, intervals, chords, part writing. Entry level sight-singing and ear training. Pass with C- at least or 70%. Lab/Lecture/Studio Hours Three hours laboratory. Note(s): S/F grading only. 2 credit(s)

**MUS 102E - Beginning Music Theory**

Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Rudimentary harmony, notation, scales, intervals, chords, part writing. Entry level sight-singing and ear training. Pass with C- at least or 70%. Lab/Lecture/Studio Hours Three hours laboratory. Note(s): S/F grading only. 2 credit(s)

**MUS 102F - Beginning Music Theory**

Review course designed for music majors whose background in music theory is not sufficient for admittance into MUS 201. Not applicable to degree with a major in music. Sight-singing and Ear Training. Three hours laboratory. 1 credit(s)

**MUS 103 - Voice Class I**

Class instruction in the fundamentals of correct breathing, tone production, and diction. Designed for non-music majors with little or no previous voice training. 3 credit(s)

**MUS 104 - Voice Class II**

Class instruction for students with previous vocal training to apply techniques of singing and acquire additional repertoire in environment suitable for performance. 3 credit(s)

**MUS 105 - Vocal Techniques**

Fundamentals of tone production, breath control, diction and practical techniques involved in reading and interpreting songs. Prerequisite(s): MUS 109. 2 credit(s)

**MUS 107 - Guitar Class I**

Beginning guitar. Basic guitar technique. Recommended for non-music majors and elementary school teachers. Prerequisite(s): No previous musical training required. 3 credit(s)

**MUS 108 - Guitar Class II**

Beginning guitar. Basic guitar technique. Recommended for non-music majors and elementary school teachers. Prerequisite(s): No previous musical training required. 3 credit(s)

**MUS 109 - Functional Piano I**

Beginning piano for music majors only. Continued instruction in piano for music majors. Lab/Lecture/Studio Hours Two hours laboratory. 1 credit(s)

**MUS 110 - Functional Piano II**

Continued instruction in piano for music majors. Lab/Lecture/Studio Hours Two hours laboratory. 1 credit(s)

**MUS 111 - Piano Class I**

Beginning piano. Basic piano technique. Recommended for non-music majors and elementary school teachers. Note(s): No previous musical training required. 3 credit(s)

**MUS 113 - Fundamentals of Music Composition I**

Theoretical and practical approach to basic techniques and principles of music composition. Prerequisite(s): MUS 201E and MUS 201F. May be repeated to a maximum of four credits. 2 credit(s)

**MUS 115 - Singing for Actors I**

Basic skills in musicianship, vocal production, breath support, and use of singing voice. Prepares students for private study and musical theatre stage. 3 credit(s)

**MUS 116 - Singing for Actors II**

Continued instruction in vocal technique and its application to the musical theater stage. Primary focus on vocal health and maintenance through the study of operatic vocal techniques. Prerequisite(s): MUS 115 or THTR 140. Note(s): Same as THTR 340. 3 credit(s)

**MUS 121 - Music Appreciation**

General introduction to music literature, with emphasis on the development of listening techniques. Historical and cultural background and analysis of representative works. 3 credit(s)

**MUS 125 - History of Rock Music**

Esthetics and sociology of rock from its origins in rhythm and blues to the rise of Elvis Presley and rockabilly; Chuck Berry and teen-age rock; Bob Dylan and protest rock; the Beatles and Rolling Stones; psychedelic rock; and soul. 3 credit(s)

**MUS 129 - Sex and Violence in Opera**

Opera appreciation course, focusing on the dramatic aspects of opera from Monteverdi to Andrew Lloyd Webber. Emphasis on sex and violence and its significance in the operatic medium. 3 credit(s)

**MUS 130 - Broadway's Greatest Composers**

Original cast albums from Show Boat to A Chorus Line serves as the basis of analysis of composers from Jerome Kern, Rodgers & Hart, and Cole Porter to Stephen Sondheim, Marvin Hamlisch, and Andrew Lloyd Webber. 3 credit(s)

**MUS 131 - Introduction to Music Literature**

Development of a listening repertoire that will serve as a basis for music history studies. 2 credit(s)

**MUS 133 - History of the Beatles**

History of the Beatles from their beginning in Liverpool, England, to their unequalled world popularity. Features a mixture of videos, including the Beatles Anthology series, "A Hard Days Night," "Help!," "Yellow Submarine," "Magical Mystery Tour," and much more. Covers every important phase of the world's most successful and beloved rock band. 3 credit(s)

**MUS 134\* - Jazz Appreciation**

Study of jazz literature for the layperson from the early 1900s to the present, with emphasis on differentiating the various styles of jazz playing. Note(s): Satisfies the Fine Arts and Multicultural Requirements. 3 credit(s)

**MUS 135 - History of American Popular Music**

The history of popular music in all its forms in the United States from 1840, progressing chronologically to the present day. 3 credit(s)

**MUS 137 - British Invasion - 60s Music**

Examination of the British Invasion of the early 1960s taught from an ethnomusicological standpoint. Taught by text, lecture, and video. Examines thirty different British Invasion groups. 3 credit(s)

**MUS 139 - Introduction to Music Technology**

Provides music and non-music majors with a basic understanding of how music and computers correlate. Sound/data management, multimedia capabilities, CD and DVD reproduction, music notation, MIDI, basic recording and editing. 3 credit(s)

**MUS 143 - Diction for Singers I**

Fundamentals of Italian, German, and French phonetics and diction as applied to singing. Prerequisite(s): MUSA 146. 1 credit(s)

**MUS 144\* - Diction for Singers II**

Advanced fundamentals of Italian, German, and French phonetics and diction as applied to singing. Prerequisite(s): MUS 143. 1 credit(s)

**MUS 167 - Piano Proficiency**

A graduation requirement of all music majors covering all skills considered necessary for success in all music careers. Functional keyboard skills combined with the application of music theory principles at the piano. 0 credit(s)

**MUS 181 - Business of Music**

Survey about music merchandising, artistic management, record and publishing companies, artists' unions, ASCAP and BMI, agents, record production, song writing and copyright registration. Includes how to make a demo tape, promote a concert, and choose a personal manager. 2 credit(s)

**MUS 191A - Reed Making for Oboe**

Beginning and Intermediate Reed Making skills for oboe players. Prerequisite(s): Must be enrolled in undergraduate oboe lessons. May be repeated to a maximum of 4 credits. Note(s): S/F grading only. 2 credit(s)



**MUS 191B - Reedmaking for Double Reed Instruments (bassoon)**

Applied basic to intermediate reed-making for double reed music majors. Corequisite(s): Must be enrolled in undergraduate oboe or bassoon applied numbers. May be repeated to a maximum of 2 credits. Notes S/F grading only. 1 credit(s)

**MUS 192A - Advanced Reed Making for Oboe**

Advanced Reed Making for oboe players. Corequisite(s): Must be enrolled in undergraduate oboe lessons. Prerequisite(s): C or higher in MUS 191A. May be repeated to a maximum of 4 credits. Note(s): S/F grading only. 2 credit(s)

**MUS 192B - Advanced Reedmaking for Double Reed Instruments (bassoon)**

Applied basic to intermediate reed-making for double reed music majors. Corequisite(s): Must be enrolled in undergraduate oboe or bassoon applied numbers. May be repeated to a maximum of two credits. 1 credit(s)

**MUS 201E - Basic Musicianship IE**

Elementary Harmony. Basic study of diatonic harmony including four-part writing. Prerequisite(s): MUS 102E and MUS 102F or permission from the department. 2 credit(s)

**MUS 201F - Basic Musicianship IF**

Ear training and sight-singing, as related to the harmonic materials of MUS 201E. Prerequisite(s): Successful completion of MUS 102E and MUS 102F or permission from the department. Lab/Lecture/Studio Hours Three- hour laboratory. 1 credit(s)

**MUS 202E - Basic Musicianship IIE**

Elementary Harmony. Basic study of elementary harmonic practices including secondary dominants and common-chord modulation, and rudimentary forms. Prerequisite(s): MUS 201E. 2 credit(s)

**MUS 202F - Basic Musicianship IIF**

Sight-singing and Ear Training. Ear training and sight-singing, as related to the harmonic materials of MUS 202E. Prerequisite(s): MUS 201F Lab/Lecture/Studio Hours Three-hour laboratory. 1 credit(s)

**MUS 209 - Functional Piano III**

Continued instruction in piano for music majors. Lab/Lecture/Studio Hours Two hours laboratory. 1 credit(s)

**MUS 210 - Functional Piano IV**

Continued instruction in piano for music majors. Lab/Lecture/Studio Hours Two hours laboratory. 1 credit(s)

**MUS 213 - Fundamentals of Music Composition II**

Continuation of Fundamentals of Music Composition I, including composition of longer pieces, and larger instrumental groups. Prerequisite(s): MUS 113, MUS 202E and MUS 202F. May be repeated to a maximum of four credits. 2 credit(s)

**MUS 215 - Techniques of Songwriting**

Practical course in composing pop music. Analysis of hit songs and discussion of songs written by the class. Each student composes ten melodies to given lyrics. Prerequisite(s): MUS 101, MUS 102 or MUS 201E. 3 credit(s)

**MUS 217 - Introduction to Film Scoring**

Historical and philosophical basis for film scores. 2 credit(s)

**MUS 230 - Music Technology II**

Provides a more detailed look into the relationship between music production and computers. Topics include digital signal processing (DSP), software synthesis, Plug-In architectures, computer audio hardware and the essential components of the digital audio workstation (DAW). Prerequisite(s): MUS 139 and MUS 239. 3 credit(s)

**MUS 231 - Recording Technology I**

Formerly Listed as MUS 231E.

Concepts of sound for recording, including basics of sound wave propagation, microphones, formats for sound storage, mixers, etc. This is the entry level course for the recording program and is either recommended or required for every course offered. Special fee charged. 3 credit(s)

**MUS 232 - Recording Technology II**

Formerly Listed as MUS 232E.

Intermediate course in multi-track recording techniques including discussions on session procedures, production techniques, tracking and overdubbing methods, and general equipment operation. Prerequisite(s): Consent of instructor. Note(s): Special fee charged. 3 credit(s)

**MUS 235 - Finale TM: An Introduction**

Introduction to computerized methods of music notation. Students use Finale tm to produce parts and scores according to professional standards in all fields of music. May be repeated to a maximum of two credits. 1 credit(s)

**MUS 239 - Virtual Studio Technology**

Explores the complete theory and application of hard disk recording systems, particularly Pro Tools, from setup to mastering. Students have hands-on experience while learning concepts and techniques for proper functioning of MIDI, digital audio, I/O, plug-ins, etc. Lab/Lecture/Studio Hours Lab and lecture combined. 3 credit(s)

**MUS 251 - Jazz Fundamentals I**

Examination of jazz harmonic practices, including basic chord progressions and extensions, chord scales and substitutions, reharmonization and ear training exercises. Prerequisite(s): MUS 202E and MUS 202F. 2 credit(s)

**MUS 252 - Jazz Fundamentals II**

Examination of modern jazz harmonic practices, including chord substitutions and ear training exercises. Prerequisite(s): MUS 251. 2 credit(s)

**MUS 257 - Jazz Keyboard**

Beginning jazz piano course for music majors. Prerequisite(s): MUS 110. 2 credit(s)

**MUS 258 - Elementary Jazz Improvisation**

Study and application of the techniques involved in jazz improvisation as related to all styles of the jazz idiom. 2 credit(s)

**MUS 259 - Introduction to Jazz Singing**

Development of skills singing in the interpretive and improvisational jazz styles. May be repeated to a maximum of two credits. 1 credit(s)

**MUS 271 - Introduction to Music Education**

Introduction to the principles, philosophy, and trends of music education in the public schools. Preparatory experience for other professional courses in music education. Observation of 15 hours of music instruction at all levels required and participation in the university classroom. Prerequisite(s): Sophomore standing. 1 credit(s)

**MUS 273 - Choral Conducting Lab**

Rehearsal and performance laboratory for music education students. May be repeated to a maximum of two credits. Lab/Lecture/Studio Hours One hour laboratory. Note(s): Required of every music education major for two semesters. 1 credit(s)

**MUS 303E - Advanced Musicianship IE**

Study of harmonic practices including mode mixtures, chromatic modulation, enharmonic modulation, late nineteenth-century practices, and an introduction to twentieth-century music. Corequisite(s): MUS 303F. Prerequisite(s): MUS 202E. 2 credit(s)

**MUS 303F - Advanced Musicianship IF**

Sight-singing and Ear Training. Ear training and sight-singing as related to the harmonic materials of MUS 303E. Corequisite(s): MUS 303E. Prerequisite(s): MUS 202F Lab/Lecture/Studio Hours Three-hour laboratory. 1 credit(s)

**MUS 304E - Advanced Musicianship IIE**

Advanced Harmony. Study of harmonic practices including late nineteenth- and twentieth-century techniques. Corequisite(s): MUS 304F Prerequisite(s): MUS 303E. 2 credit(s)

**MUS 304F - Advanced Musicianship IIF**

Advanced Musicianship IIE. Sight-singing and Ear Training. Ear training and sight-singing related to the harmonic materials of MUS 304E. Corequisite(s): MUS 304E. Prerequisite(s): 202F Lab/Lecture/Studio Hours Three-hour laboratory. 2 credit(s)

**MUS 319 - Multimedia for the Professional**

Production of digital multimedia, including assembly of DVD and CD projects for students representing their body of work, how to set up a website, streaming audio and video for the web, and more. Prerequisite(s): MUS 231 and MUS 239. May be repeated to a maximum of six credits. 3 credit(s)

**MUS 320 - Large Console Recording**

Learn the basics of a large, automated console, including operation, wiring, practicality, and maintenance. Students record several sessions of varying complexity and then compile their final mixes on the Euphonix CS3000 with full utilization of plug-ins, dynamics, and automation with recall. Prerequisite(s): MUS 231, MUS 232. May be repeated to a maximum of six credits. 3 credit(s)

**MUS 321 - Studio Recording III**

Follow-up to MUS 231 and 232 and involves students in the advanced operation of recording sessions. An in-depth look at digital mixers, with an introduction to the large console, plug-ins and mic setups. Students will record and mix their own sessions. Prerequisite(s): MUS 231 and MUS 232. May be repeated to a maximum of six credits. 3 credit(s)

**MUS 331 - Piano Literature I**

Survey of literature designed for the piano major. Includes music from Couperin through Liszt, focusing on J.S. Bach, Mozart, Haydn, Beethoven, Schubert, and Schumann. Study of early keyboard instruments, their properties, and playing techniques. Prerequisite(s): MUS 129. May be repeated to a maximum of two credits. 2 credit(s)

**MUS 332 - Piano Literature II**

Survey of literature designed for the piano major. Focuses on music of Chopin, Brahms, Bartok, Prokofiev, and avant-garde composers and their techniques. Prerequisite(s): MUS 331, junior status. 2 credit(s)

**MUS 341 - Music History I**

Historical survey of significant musical artists and works from the Middle Ages to about 1750, studied in the context of pertinent compositional, performance, cultural, and societal issues. Prerequisite(s): Passing grade on the music history placement examination or successful completion of MUS 131, and completion of MUS 202E. 3 credit(s)

**MUS 342 - Music History II**

Historical survey of significant musical artists and works from about 1750 to 1900, studied in the context of pertinent compositional, performance, cultural, and societal issues. Prerequisite(s): Passing grade on the music history placement examination or successful completion of MUS 131 and MUS 202E. Note(s): Satisfies International Requirement. 3 credit(s)

**MUS 343 - Music History III**

Historical survey of significant musical artists and works from about 1900 to the present, studied in the context of pertinent compositional, performance, cultural, and societal issues. Prerequisite(s): Passing grade on the music history placement examination or successful completion of MUS 131 and MUS 202E. 3 credit(s)

**MUS 345 - Jazz History I**

Survey of the history of jazz from its origins through early jazz, the swing era and bebop to the present. Prerequisite(s): MUS 131 Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**MUS 346 - Jazz History II**

Continuation of the history of Jazz from the beginning of the bebop era to the present. Prerequisite(s): MUS 345. 3 credit(s)

**MUS 348 - Issues in American Music**

Exploration of the evolution of American musical forms. Emphasis placed on understanding the various cultural and ethnic influences on music in America and how they fused to create distinctly American genres such as jazz, musical theater, American folk, pop, and aleatoric music. Prerequisite(s): MUS 131 and upper-division standing. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**MUS 351 - Jazz Vocal Styles I**

Evolution of vocal jazz from 1920 through 1960. Combination of lectures and listening. Vocalists include: Louis Armstrong, Bessie Smith, Dinah Washington, Ella Fitzgerald, Sarah Vaughan and others. Prerequisite(s): MUS 143. 2 credit(s)

**MUS 352 - Jazz Vocal Styles II**

Evolution of vocal jazz from 1960-present. Based on a combination of lectures and listening. Oral presentation and performance of a vocal transcription required. Vocalists include: Sheila Jordan, Carmen McRae, George Benson, Flora Purim, Bobby McFerrin, Take Six, and others. Prerequisite(s): MUS 351. 2 credit(s)

**MUS 357 - Jazz Form and Analysis**

In-depth study of the artistic, theoretical, and stylistic techniques of jazz artists through the analysis of their transcribed solos. Prerequisite(s): MUS 202E. 3 credit(s)

**MUS 358 - Advanced Jazz Improvisation**

Continuation of MUS 258, with emphasis on advanced techniques and applications of jazz improvisation. Prerequisite(s): MUS 258. 2 credit(s)

**MUS 359 - Beginning Jazz Arranging and Composition**

Emphasis on techniques of arranging and composition for the contemporary jazz orchestra. Prerequisite(s): MUS 304. 2 credit(s)

**MUS 360 - Advanced Jazz Vocal Arranging and Composition**

Beginning to intermediate arranging and composition techniques. Career preparation for vocal jazz performers. Topics include: basic tune writing, lead-sheet writing, vocal arrangement with piano trio, two-horn arrangement for vocal with trio. Prerequisite(s): MUS 257. 2 credit(s)

**MUS 362 - Beginning Conducting**

Basic principles of conducting and score reading. Students must be members of one of the performance ensembles. Prerequisite(s): MUS 304E and MUS 167. 2 credit(s)

**MUS 365 - Beginning Orchestration**

Intensive study of all orchestral and band instruments, their ranges and characteristics, and the techniques of scoring for small and large groups. Transcriptions from piano scores. Prerequisite(s): MUS 304E. 2 credit(s)

**MUS 372 - Advanced Instrumental Conducting**

Develop and refine basic conducting skills for future instrumental conducting experiences through demonstration, discussion, and analysis of appropriate applications. Emphasis is placed on score realization, pedagogy, and rehearsal techniques. Prerequisite(s): MUS 362 and MUS 167. May be repeated to a maximum of two credits. 2 credit(s)

**MUS 373 - Advanced Choral Conducting**

Develop and refine basic conducting skills for future choral conducting experiences through demonstration, discussion, and analysis of appropriate applications. Emphasis is placed on score realization, pedagogy, and rehearsal techniques. Prerequisite(s): MUS 273 and MUS 362. May be repeated to a maximum of two credits. 1 credit(s)

**MUS 374 - Introduction to Orff Schulwerk**

Sequential and logical study of the process used when teaching the Orff approach, including imitation, exploration, and creation. Prerequisite(s): MUS 378. 2 credit(s)

**MUS 375 - Instrumental Methods**

Instrumental techniques and problems of teaching music in junior and senior high schools. Corequisite(s): MUS 452C. Prerequisite(s): MUS 271. 3 credit(s)

**MUS 376 - Choral Methods**

Vocal techniques and problems of teaching music in junior and senior high schools. Corequisite(s): MUS 452B. Prerequisite(s): MUS 271. 3 credit(s)

**MUS 378 - Teaching General Music**

Techniques for teaching general music, to include presenting rote and note songs, teaching note reading, singing games, listening, rhythmic expression, movement, creativity and simple rhythm and pitched percussion instruments. Corequisite(s): MUS 452A. Prerequisite(s): MUS 271. 3 credit(s)

**MUS 385 - String Class Methods**

Techniques of teaching string instruments with emphasis on performance, pedagogy, and group instruction. 2 credit(s)

**MUS 385A - String Class Methods (High)**

Techniques of teaching violin and viola, with emphasis on performance, pedagogy, and group instruction. Lab/Lecture/Studio Hours Lecture and laboratory. 1 credit(s)

**MUS 385B - String Class Methods (Low)**

Techniques of teaching cello and bass, with emphasis on performance, pedagogy, and group instruction. Lab/Lecture/Studio Hours Lecture and laboratory. 1 credit(s)

**MUS 386 - Percussion Class Methods**

Techniques of teaching percussion instruments with emphasis on performance, pedagogy, and group instruction. 2 credit(s)

**MUS 386A - Percussion Class Methods (Sn/KeyTimp/Aux)**

Techniques of teaching percussion instruments (snare, keyboard, timpani, auxiliary), with emphasis on performance, pedagogy, and group instruction. Includes practical and written examination. 1 credit(s)

**MUS 386B - Percussion Class Methods (Lat/Mul/Mar/Set)**

Techniques of teaching percussion instruments (Latin, multiple, marching, drum set), with emphasis on performance, pedagogy, and group instruction. Includes practical and written examination. 1 credit(s)

**MUS 387 - Brass Class Methods**

Techniques of teaching brass instruments with emphasis on performance, pedagogy, and group instruction. 2 credit(s)

**MUS 387A - Brass Class Methods (High)**

Techniques of teaching high brass instruments (trumpet, cornet, French horn), with emphasis on performance, pedagogy, and group instruction. 1 credit(s)

**MUS 387B - Brass Class Methods (Low)**

Techniques of teaching low brass instruments (trombone, baritone/euphonium, tuba), with emphasis on performance, pedagogy, and group instruction. 1 credit(s)

**MUS 388 - Woodwind Class Methods**

Techniques of teaching woodwind instruments with emphasis on performance, pedagogy, and group instruction. 2 credit(s)

**MUS 388A - Woodwind Class Methods (single reed/flute)**

Techniques of teaching woodwind instruments (single reed/flute), with emphasis on performance, pedagogy, and group instruction. 1 credit(s)

**MUS 388B - Woodwind Class Methods (double reeds)**

Techniques of teaching woodwind instruments (double reeds), with emphasis on performance, pedagogy, and group instruction. 1 credit(s)

**MUS 389 - Rhythm Section Methods**

Hands-on study of playing techniques and pedagogical approaches to instruments found within the rhythm section of a jazz band. Prerequisite(s): MUS 202E, MUS 202F and MUS 257. 1 credit(s)

**MUS 391 - Teaching of Marching Band Techniques**

A practical and historical survey of marching band techniques and movements. Direct observation and student projects explore and reinforce necessary skills. Prerequisite(s): MUS 271. 1 credit(s)

**MUS 398 - Junior Recital Music Education**

Presentation of a half recital (minimum of 20 minutes actual playing time). Prerequisite(s): Consent of music department faculty. 1 credit(s)

**MUS 399 - Junior Recital**

Presentation of a half recital (minimum of 20 minutes actual playing time). Prerequisite(s): Consent of Music Department faculty. 1 credit(s)

**MUS 401 - Counterpoint**

Analysis of polyphonic practices including sixteenth-, eighteenth-, and twentieth-century styles. Prerequisite(s): MUS 304E. 3 credit(s)

**MUS 403A - Adv Mus-Adv Harmony**

Adv Mus-Adv Harmony. 0 credit(s)

**MUS 403B - Adv Mus-Sgt Ear Kyb**

Adv Mus-Sgt Ear Kyb. 0 credit(s)

**MUS 404E - Advanced Musicianship III E**

Study of some of the most influential materials and techniques from the music of the twentieth and twenty-first centuries. Corequisite(s): MUS 404F. Prerequisite(s): MUS 304E. 3 credit(s)

**MUS 404F - Advanced Musicianship III F**

Advanced Sight-singing and Ear Training. Ear training and sight-singing related to the harmonic materials of MUS 404E. Corequisite(s): MUS 404E. Prerequisite(s): MUS 304E Lab/Lecture/Studio Hours Three-hour laboratory. 1 credit(s)

**MUS 405 - Keyboard Harmony**

Practical studies in music theory and ear training through keyboard exercises. Intermediate piano skills required. Prerequisite(s): MUS 202. 2 credit(s)

**MUS 408\* - Form and Analysis**

Study of form (binary, ternary, rondo, sonata, concerto, fugue, open forms, etc.) as found in music from the Middle Ages to the most recent. Prerequisite(s): MUS 304E or must be concurrently enrolled in MUS 304E. 3 credit(s)

**MUS 414\* - Choral Literature**

Survey of choral literature and stylistic practices from the Renaissance through the twentieth century. Prerequisite(s): MUS 341. 2 credit(s)

**MUS 415\* - Instrumental Literature**

A study of band and orchestra literature for public school ensembles, students will listen, study scores, and discuss instructional techniques and repertoire. Prerequisite(s): MUS 271. 2 credit(s)

**MUS 417\* - Vocal Pedagogy**

Introduction to the basic problems involved in the teaching of voice. Study of tone production, breathing, diction, interpretation and style. Does not fulfill requirements for elementary or secondary school vocal methods. Prerequisite(s): MUS 144. 2 credit(s)

**MUS 418\* - Piano Pedagogy**

Survey of beginning piano methods. Organization of a private studio: policies and marketing. Teaching observations and directed teaching individual and class setting required. Prerequisite(s): MUSA 128. 2 credit(s)

**MUS 419\* - Instrumental Pedagogy**

Study and practice in the use of concepts of instrumental music pedagogy. Students complete a series of assignments including reading, library research, observation, and studio teaching. 1 credit(s) Corequisite(s): MUS 361 or above.

**MUS 426\* - Vocal Literature**

Survey of representative solo song literature, with emphasis on Italian, French, and German art songs. Prerequisite(s): MUS 144. 2 credit(s)

**MUS 429\* - Interpretation: German Lied**

Study of German art song from 1700 to the present. Emphasis on style and interpretation, including study of the musical and historical contexts and their effect on poetry and art-song literature. Prerequisite(s): MUS 143. Note(s): This course is crosslisted with MUS 629. Credit at the 600-level requires additional work. 1 credit(s)

**MUS 430\* - French Mélodie**

Study of French mélodie from 1800 to the present. Emphasis on style and interpretation, including the study of the musical and historical contexts and their effect on poetry and art-song literature. Prerequisite(s): MUS 143. Note(s): This course is crosslisted with MUS 630\*. Credit at the 600-level requires additional work. 1 credit(s)

**MUS 433\* - Advanced HD and Surround Sound**

Advanced Hard Disk recording techniques on the Pro Tools HD Systems, including concepts in Surround Sound. Topics include HUI control surface, multi-channel monitoring and mix-down, and software plug-ins. Geared toward audio engineering in the DVD/Audio, Film and Multimedia fields. Prerequisite(s): MUS 231 and 239. May be repeated to a maximum of six credits. 3 credit(s)

**MUS 444\* - Entertainment and Fine Arts Law I**

(Same as AAD, DAN, THTR 421A.) Protection of works created by entertainers and artists, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special consideration to film and music industries. Note(s): Same as AAD 421A, DAN 421A, THTR 421A, ART 429. 3 credit(s)

**MUS 445\* - Entertainment and Fine Arts Law II**

Unique legal issues in the fields of live stage performance, theater, music, television and film, art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems. Prerequisite(s): MUS 444\*, DAN 421A or THTR 421A. Note(s): Same as ART, DAN, THTR 421B. 3 credit(s)

**MUS 446 - Competitive Drumline Techniques**

Study of composition and formation for competitive Marching Drumline. Designed for marching band and marching percussion instructors. Includes classroom instruction and three hours practicum. Prerequisite(s): Consent of instructor. 1 credit(s)

**MUS 451 - Jazz Band Methods**

Study and implementation of pedagogical techniques as they relate to the rehearsal and preparation of jazz band music. Prerequisite(s): MUS 202E and 202F 1 credit(s)

**MUS 452A - Practicum I: General Music**

Students participate in, assist, and direct music instruction in an assigned public school setting. May be repeated to a maximum of six credits. Note(s): Thirty hours of field experience and weekly participation are required. 2 credit(s)

**MUS 452B - Practicum II: Choral/Vocal**

Students participate in, assist, and direct music instruction in an assigned public school setting. May be repeated to a maximum of six credits. Note(s): Thirty hours of field experience and weekly participation are required. 2 credit(s)

**MUS 452C - Practicum 3: Instrumental**

Students participate in, assist, and direct music instruction in an assigned public school setting. May be repeated to a maximum of six credits. Note(s): Thirty hours of field experience and weekly participation are required. 2 credit(s)

**MUS 453 - Music Skills for Classroom Teachers**

Development of music skills useful in teaching and integrating music in the elementary grades. Classroom and performance projects on recorder, Orff instruments and classroom percussion instruments. Methods, materials, and techniques of Jaques-Dalcroze, Orff-Schulwerk, and Kodaly studied for functional application. 3 credit(s)

**MUS 455\* - Music Methods for Exceptional Children**

Techniques for teaching and integrating music for exceptional children. Prerequisite(s): ESP 200. Note(s): Preparation of musical lessons and performance required. 3 credit(s)

**MUS 457 - Jazz Keyboard Seminar**

Continuation of MUS 232 with emphasis on advanced techniques and a free exchange of ideas and concepts. Prerequisite(s): MUS 257. May be repeated to a maximum of six credits. 2 credit(s)

**MUS 459\* - Advanced Jazz Arranging and Composition**

Continuation of MUS 334, with emphasis on more advanced contemporary styles of jazz writing including the usage of variable time signatures and new harmonic possibilities. Prerequisite(s): MUS 359. 2 credit(s)

**MUS 465 - Advanced Orchestration**

Emphasis on techniques of orchestration for the full symphony orchestra. Analysis of symphonic scores from all periods. Prerequisite(s): MUS 365. 2 credit(s)

**MUS 470 - Endangered Instrument Project Teaching Practicum**

Supervised group and individual lesson teaching experience for bassoon, oboe, and horn majors or minors as part of the Endangered Instrument Project. Field experience weekly at one of nine Clark County "at-risk" middle schools and one seminar during the first week of class. Fulfills instrumental pedagogy requirement. Prerequisite(s): Upper Division study in either oboe, bassoon, or horn. 1 credit(s)

**MUS 480\* - The Healthy Musician**

Auditory, vocal, mental and neuromusculoskeletal health will be studied, focusing on health preservation and injury prevention among musicians, including performance anxiety issues. Students will learn relevant anatomy and physiology, as well as the ergonomics of music. Somatic disciplines such as Body Mapping, Yoga, or Alexander Technique may also be explored. Prerequisite(s): At least one semester of applied lessons. Note(s): Lab component required. 1 credit(s)

**MUS 481E - Elementary Supervised Student Teaching: Music**

Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores. 6-12 credit(s)

**MUS 481S - Secondary Supervised Student Teaching: Music**

Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores.. 6-12 credit(s)

**MUS 482 - Supervised Student Teaching Seminar: Music**

Music education teacher candidates attend required seminar sessions during student teaching. The seminar is designed to provide support for correlating professional education courses to actual classroom teaching experiences, reflective opportunities for self-assessment and systematic connections between university and school district supervisory personnel. Corequisite(s): EDEL 481. 2 credit(s)

**MUS 490 - Music Internship**

Supervised projects in the music business, including forming, recording, promoting and performing with one's own band. Prerequisite(s): Consent of instructor. May be repeated for credit. 1 credit(s)

**MUS 493 - Seminar: Special Topics**

Explores a specific aspect of the study of music. May be repeated to a maximum of six credits. 1-3 credit(s)



**MUS 495 - Independent Study**

Open to junior and senior students majoring in music. Students must present proposals, including names of advisors and number of credits, no later than one week before registration. a) History/Literature b) Theory/Composition c) Music Education. Prerequisite(s): Consent of music department faculty. May be repeated to a maximum of six credits. 1-3 credit(s)

**MUS 499\* - Senior Recital**

Presentation of a full recital (minimum of 40 minutes actual playing time). Prerequisite(s): Consent of Music Department faculty. 0 credit(s)

**MUSA 101 - Bass I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 102 - Bass II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 101. Note(s): Special fee required. 2-4 credit(s)

**MUSA 103 - Bassoon I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 104 - Bassoon II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 105 - Cello I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 106 - Cello II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 105. Note(s): Special fee required. 2-4 credit(s)

**MUSA 107 - Clarinet I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 108 - Clarinet II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 107. Note(s): Special fee required. 2-4 credit(s)

**MUSA 111 - Euphonium I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 112 - Euphonium II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 111. Note(s): Special fee required. 2-4 credit(s)

**MUSA 113 - Flute I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 114 - Flute II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 113. Note(s): Special fee required. 2-4 credit(s)

**MUSA 115 - Guitar I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 116 - Guitar II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 115. Note(s): Special fee required. 2-4 credit(s)

**MUSA 117 - Harp I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 118 - Harp II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 117. Note(s): Special fee required. 2-4 credit(s)

**MUSA 121 - Horn I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 122 - Horn II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 121. Note(s): Special fee required. 2-4 credit(s)

**MUSA 123 - Oboe I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 124 - Oboe II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 123. Note(s): Special fee required. 2-4 credit(s)

**MUSA 125 - Organ I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 126 - Organ II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 125. Note(s): Special fee required. 2-4 credit(s)

**MUSA 127 - Percussion I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 128 - Percussion II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 127. Note(s): Special fee required. 2-4 credit(s)

**MUSA 129 - Piano I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 130 - Piano II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 129. Note(s): Special fee required. 2-4 credit(s)

**MUSA 131 - Saxophone I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 132 - Saxophone II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 131. Note(s): Special fee required. 2-4 credit(s)

**MUSA 133 - MIDI for Music Technology**

Introduces the student to concepts in MIDI. The evolution and theory of MIDI will be integrated with several projects using Hardware & Software synthesizers. Private instruction. May be repeated to a maximum of eight credits. 4 credit(s)

**MUSA 135 - Trombone I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 136 - Trombone II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 135. Note(s): Special fee required. 2-4 credit(s)

**MUSA 137 - Trumpet I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 138 - Trumpet II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 137. Note(s): Special fee required. 2-4 credit(s)

**MUSA 139 - Tuba I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 140 - Tuba II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 139. Note(s): Special fee required. 2-4 credit(s)

**MUSA 141 - Viola I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 142 - Viola II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 141. Note(s): Special fee required. 2-4 credit(s)

**MUSA 143 - Violin I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 144 - Violin II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 143. Note(s): Special fee required. 2-4 credit(s)

**MUSA 145 - Voice I**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): Music major. Note(s): Special fee required. 2-4 credit(s)

**MUSA 146 - Voice II**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 145. Note(s): Special fee required. 2-4 credit(s)

**MUSA 147 - Voice for Musical Theatre Majors**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 148 - Voice for Musical Theatre Majors II**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 151 - Bass for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee required. 1-2 credit(s)

**MUSA 152 - Bassoon for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee required. 1-2 credit(s)

**MUSA 153 - Cello for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee required. 1-2 credit(s)

**MUSA 154 - Clarinet for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 156 - Euphonium for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 157 - Flute for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 158 - Guitar for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 159 - Harp for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 161 - Horn for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 162 - Oboe for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 163 - Organ for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 164 - Percussion for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 165 - Piano for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 166 - Saxophone for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 168 - Trombone for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 169 - Trumpet for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 170 - Tuba for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 171 - Viola for Non Major**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 172 - Violin for Non-Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 174 - Voice for Musical Theatre Majors**

Private music study designed for the non-music major. May be repeated for credit. Note(s): No previous study required. Special instruction fee is required. 1-2 credit(s)

**MUSA 201 - Bass III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 102. Note(s): Special fee required. 2-4 credit(s)

**MUSA 202 - Bass IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 201. Note(s): Special fee required. 2-4 credit(s)

**MUSA 203 - Bassoon III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 104. Note(s): Special fee required. 2-4 credit(s)

**MUSA 204 - Bassoon IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. 2-4 credit(s) Prerequisite(s): MUSA 203. Note(s): Special fee required.

**MUSA 205 - Cello III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 106. Note(s): Special fee required. 2-4 credit(s)

**MUSA 206 - Cello IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 205. Note(s): Special fee required. 2-4 credit(s)

**MUSA 207 - Clarinet III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 108. Note(s): Special fee required. 2-4 credit(s)

**MUSA 208 - Clarinet IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 207. Note(s): Special fee required. 2-4 credit(s)

**MUSA 211 - Euphonium III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 112. Note(s): Special fee required. 2-4 credit(s)

**MUSA 212 - Euphonium IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 211. Note(s): Special fee required. 2-4 credit(s)

**MUSA 213 - Flute III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 114. Note(s): Special fee required. 2-4 credit(s)

**MUSA 214 - Flute IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 213. Note(s): Special fee required. 2-4 credit(s)

**MUSA 215 - Guitar III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 116. Note(s): Special fee required. 2-4 credit(s)

**MUSA 216 - Guitar IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 215. Note(s): Special fee required. 2-4 credit(s)

**MUSA 217 - Harp III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 118. Note(s): Special fee required. 2-4 credit(s)

**MUSA 218 - Harp IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 217. Note(s): Special fee required. 2-4 credit(s)

**MUSA 221 - Horn III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 122. Note(s): Special fee required. 2-4 credit(s)

**MUSA 222 - Horn IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 221. Note(s): Special fee required. 2-4 credit(s)

**MUSA 223 - Oboe III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 124. Note(s): Special fee required. 2-4 credit(s)

**MUSA 224 - Oboe IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 223. Note(s): Special fee required. 2-4 credit(s)

**MUSA 225 - Organ III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 126. Note(s): Special fee required. 2-4 credit(s)

**MUSA 226 - Organ IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 225. Note(s): Special fee required. 2-4 credit(s)

**MUSA 227 - Percussion III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 128. Note(s): Special fee required. 2-4 credit(s)

**MUSA 228 - Percussion IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 229 - Piano III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 130. Note(s): Special fee required. 2-4 credit(s)

**MUSA 230 - Piano IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 231 - Saxophone III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 132. Note(s): Special fee required. 2-4 credit(s)

**MUSA 232 - Saxophone IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 231. Note(s): Special fee required. 2-4 credit(s)

**MUSA 233 - Advanced Concepts in Computer Music**

Hard disk recording for the student who requires one-on-one instruction. Special projects will be the focus for an in-depth study on the integration of MIDI and digital audio recording, editing and sound design. Private instruction. May be repeated to a maximum of eight credits. 4 credit(s)

**MUSA 235 - Trombone III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 136. Note(s): Special fee required. 2-4 credit(s)

**MUSA 236 - Trombone IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 235. Note(s): Special fee required. 2-4 credit(s)

**MUSA 237 - Trumpet III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 138. Note(s): Special fee required. 2-4 credit(s)

**MUSA 238 - Trumpet IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 237. Note(s): Special fee required. 2-4 credit(s)

**MUSA 239 - Tuba III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 140. Note(s): Special fee required. 2-4 credit(s)

**MUSA 240 - Tuba IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 239. Note(s): Special fee required. 2-4 credit(s)

**MUSA 241 - Viola III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 142. Note(s): Special fee required. 2-4 credit(s)

**MUSA 242 - Viola IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 241. Note(s): Special fee required. 2-4 credit(s)

**MUSA 243 - Violin III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 144. Note(s): Special fee required. 2-4 credit(s)

**MUSA 244 - Violin IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 243. Note(s): Special fee required. 2-4 credit(s)

**MUSA 245 - Voice III**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 146. Note(s): Special fee required. 2-4 credit(s)

**MUSA 246 - Voice IV**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 245. Note(s): Special fee required. 2-4 credit(s)

**MUSA 247 - Voice for Musical Theatre Majors III**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 248 - Voice for Musical Theatre Majors IV**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 300 - Piano for Music Educators**

To be taken after successful completion of Piano Proficiency. It is designed to develop the piano skills for music education students who will be working in a K-12 Choral setting, through sight reading, harmonization, transposition, score reading, and challenging repertoire. Conducting from the piano is incorporated. Prerequisite(s): MUS 167. 1 credit(s)

**MUSA 301 - Bass V**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 202. Note(s): Special fee required. 2-4 credit(s)

**MUSA 302 - Bass VI**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 301. Note(s): Special fee required. 2-4 credit(s)

**MUSA 303 - Bassoon V**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 204. Note(s): Special fee required. 2-4 credit(s)

**MUSA 304 - Bassoon VI**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 303. Note(s): Special fee required. 2-4 credit(s)





**MUSA 406 - Cello VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 405. Note(s): Special fee required. 2-4 credit(s)

**MUSA 407 - Clarinet VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 308. Note(s): Special fee required. 2-4 credit(s)

**MUSA 408 - Clarinet VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 407. Note(s): Special fee required. 2-4 credit(s)

## MUSA 411 - Euphonium VII

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 312. Note(s): Special fee required. 2-4 credit(s)

## MUSA 412 - Euphonium VIII

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 411. Note(s): Special fee required. 2-4 credit(s)

**MUSA 413 - Flute VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 314. Note(s): Special fee required. 2-4 credit(s)

**MUSA 414 - Flute VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 413. Note(s): Special fee required. 2-4 credit(s)

**MUSA 415 - Guitar VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 316. Note(s): Special fee required. 2-4 credit(s)

## MUSA 416 - Guitar VIII

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 415. Note(s): Special fee required. 2-4 credit(s)

**MUSA 417 - Harp VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 318. Note(s): Special fee required. 2-4 credit(s)

**MUSA 418 - Harp VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 417. Note(s): Special fee required. 2-4 credit(s)

**MUSA 421 - Horn VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 322. Note(s): Special fee required. 2-4 credit(s)

**MUSA 422 - Horn VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 421. Note(s): Special fee required. 2-4 credit(s)

**MUSA 423 - Oboe VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 324. Note(s): Special fee required. 2-4 credit(s)

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 306. Note(s): Special fee required. 2-4 credit(s)

**MUSA 424 - Oboe VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 423. Note(s): Special fee required. 2-4 credit(s)

**MUSA 425 - Organ VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 326. Note(s): Special fee required. 2-4 credit(s)

**MUSA 426 - Organ VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 425. Note(s): Special fee required. 2-4 credit(s)

**MUSA 427 - Percussion VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 328. Note(s): Special fee required. 2-4 credit(s)

**MUSA 428 - Percussion VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 427. Note(s): Special fee required. 2-4 credit(s)

**MUSA 429 - Piano VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 330. Note(s): Special fee required. 2-4 credit(s)

**MUSA 430 - Piano VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 429. Note(s): Special fee required. 2-4 credit(s)

**MUSA 431 - Saxophone VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 332. Note(s): Special fee required. 2-4 credit(s)

**MUSA 432 - Saxophone VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 431. Note(s): Special fee required. 2-4 credit(s)

**MUSA 435 - Trombone VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 336. Note(s): Special fee required. 2-4 credit(s)

**MUSA 436 - Trombone VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 435. Note(s): Special fee required. 2-4 credit(s)

**MUSA 437 - Trumpet VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 338. Note(s): Special fee required. 2-4 credit(s)

**MUSA 438 - Trumpet VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 437. Note(s): Special fee required. 2-4 credit(s)

**MUSA 439 - Tuba VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 340. Note(s): Special fee required. 2-4 credit(s)

**MUSA 440 - Tuba VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 439. Note(s): Special fee required. 2-4 credit(s)

**MUSA 441 - Viola VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 342. Note(s): Special fee required. 2-4 credit(s)

**MUSA 442 - Viola VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 442. Note(s): Special fee required. 2-4 credit(s)

**MUSA 443 - Violin VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 443. Note(s): Special fee required. 2-4 credit(s)

**MUSA 444 - Violin VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 443. Note(s): Special fee required. 2-4 credit(s)

**MUSA 445 - Voice VII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 346. Note(s): Special fee required. 2-4 credit(s)

**MUSA 446 - Voice VIII**

Applied music for the music major. All students attend a repertory class each week in addition to the lesson. Prerequisite(s): MUSA 445. Note(s): Special fee required. 2-4 credit(s)

**MUSA 447 - Voice for Musical Theatre Majors VII**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 448 - Voice for Musical Theatre Majors VIII**

Applied music for the theater major. All students attend a repertory class each week in addition to the lesson. Note(s): Special fee required. 2-4 credit(s)

**MUSA 451 - Private Composition**

Individual instruction covering basic and advanced techniques in music composition for different instrumental media. Prerequisite(s): Students' portfolio of compositions and piano competency skills must fulfill the minimum requirements as determined by the composition faculty. May be repeated for credit. 2-4 credit(s)

**MUSA 452 - Private Orchestration**

Offerings for individual instruction in Orchestration. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 453 - Private Jazz Arranging and Composition**

Offerings for individual instruction in Jazz Arranging and Composition. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 454 - Private Counterpoint**

Offerings for individual instruction in Counterpoint. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 455 - Private Harmony**

Offerings for individual instruction in Harmony. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 456 - Private Form and Analysis**

Offerings for individual instruction in Form and Analysis. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 457 - Private Conducting: Choral**

Offerings for individual instruction on Choral Conducting. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 458 - Private Conducting: Instrumental**

Offerings for individual instruction on Instrumental Conducting. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 459 - Private Music History**

Offerings for individual instruction in Music History. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSA 461 - Private Sight-Singing and Ear Training**

Offerings for individual instruction in Sight-Singing and Ear Training. Prerequisite(s): Consent of instructor. May be repeated for credit. 2-4 credit(s)

**MUSE 103 - Chamber Chorale**

Advanced chamber ensemble with emphasis on a cappella literature of all periods. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 104 - Opera Workshop**

Laboratory course devoted to the performance of operatic excerpts and short operas. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of six credits for each course. 1 credit(s)

**MUSE 105 - Women's Chorus**

Study and performance of sacred and secular choral music for female voices. Required participation in scheduled performances. Open to all members of the university community. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 106 - Varsity Men's Glee Club**

Study and performance of sacred and secular choral music for male voices. Required participation in scheduled performances. Open to all members of the university community. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 107 - Master Chorale**

Mixed choir for music majors, non-majors, and community members which focuses upon a cappella repertoire as well as major works with orchestra. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 108 - Concert Singers**

Concert choir that performs sacred and secular choral music of many styles, including a cappella literature. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 113 - Wind Orchestra**

Emphasis on wind and percussion literature from all historical periods. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of eight credits. Lab/Lecture/Studio Hours Four hours laboratory. 1 credit(s)

**MUSE 115 - Marching Band**

Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at football games. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. Lab/Lecture/Studio Hours Five hours laboratory. 1 credit(s)

**MUSE 116 - Pep Band**

Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Ensemble

designed primarily to perform at basketball games. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. Lab/Lecture/Studio Hours Three hours laboratory. 1 credit(s)

**MUSE 118 - Community Concert Band**

Open to all university students with previous band experience. Required participation in scheduled appearances for various events on and off campus. Lab/Lecture/Studio Hours Three hours laboratory. 1 credit(s)

**MUSE 119 - Brass Band**

Ensemble designed to rehearse and concertize literature composed/transcribed for large brass ensemble and percussion. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 120 - Symphonic Winds**

Open to music and select non-music majors who successfully audition at the end of the fall semester. Performs standard wind band literature with an emphasis upon practical pedagogical foundations. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 121 - Symphony Orchestra**

Premier university ensemble which rehearses and performs orchestral repertoire from the early Baroque to the present day. Participants selected by audition and the instructor's consent. All selected participants expected to be available for all rehearsals (including occasional evening and dress rehearsals) and performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 122 - Chamber Orchestra**

Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of eight credits. 1 credit(s)

**MUSE 124 - New Horizons Band**

Rehearsal and study of wind and percussion literature from all historical periods for members of the university and community. May include scheduled appearances on and off campus. 1 credit(s)

**MUSE 125 - Civic Orchestra**

An introduction to the modern symphony orchestra with an emphasis upon the learning and enjoyment of music, musical comprehension and appreciation. The ensemble performs regularly throughout the semester and is open to anyone with the desire to play an instrument within the orchestra idiom. Standard orchestral repertoire will be covered. May be repeated for credit. 1 credit(s)

**MUSE 131 - Jazz Ensemble**

Experience in large ensemble performance in the jazz idiom. Required participation in scheduled appearances both on and off campus, including festivals and out-of-town tours. Open to all university students by audition only. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 132 - Introduction to Jazz Combo**

Small jazz combo with an emphasis on developing essential repertoire and rehearsal techniques. Performances are required throughout the semester. Students will prepare during weekly scheduled combo rehearsals. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 133 - Jazz Combo**

Jazz Combo experience including the study of appropriate repertoire. Preparation for performances will be done in weekly scheduled combo rehearsals. In addition, each combo will perform two additional concerts, so that a minimum of three performances is required of each combo during the semester. Prerequisite(s): Successful audition or instructor consent. 1 credit(s)



### **MUSE 134 - Jazz Guitar Ensemble**

Jazz Guitar Ensemble. Exposes guitar students to a broad spectrum of musical styles, exercises their reading skills, and introduces them to the art of improvisational soloing. Experience the camaraderie of playing in an ensemble and the opportunity to exchange information and ideas. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

### **MUSE 135 - Jazz Vocal Ensemble**

Jazz Vocal Ensemble. Exposes the students to performance with emphasis on essential stylistic interpretations associated with the jazz vocal repertoire. A rhythm section will be provided. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

### **MUSE 136 - Contemporary Jazz Ensemble**

Rehearsals with performance opportunities in contemporary jazz styles. Students will explore relevant jazz literature and are encouraged to compose original jazz music. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

### **MUSE 137 - Jazz Latin Ensemble**

Exposes the students to performance with emphasis on essential stylistic interpretations associated with Latin jazz repertoire. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

### **MUSE 141 - Woodwind Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 143 - Flute Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 144 - Clarinet Choir**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 145 - Saxophone Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 146 - Brass Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 151 - String Chamber Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 153 - Guitar Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 161 - Percussion Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 162 - Marimba Band**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 163 - African Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of eight times. 1 credit(s)

### **MUSE 164 - Percussion and Dance**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 165 - Steel Drum Band**

The UNLV Steel Band performs music of many genres predominantly the music indigenous to Jamaica and Trinidad. Students will develop the ability and skills to play a variety of steel pans, percussion instruments and drum set. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of ten credits. 1 credit(s)

### **MUSE 166 - Hand Drum Ensemble**

Art of playing a variety of hand drums from around the world. Students exposed to authentic patterns, techniques and the general drum circle experience. Beginning and advanced ensembles accommodate the needs of all participants. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of ten credits. 1 credit(s)

### **MUSE 171 - Piano Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 172 - Accompanying**

Develops skills needed in vocal and instrumental accompanying. Fulfills 1 credit of ensemble requirement for piano majors. Prerequisite(s): Successful audition or instructor consent. May be repeated. 1 credit(s)

### **MUSE 173 - Piano Sight Reading Ensemble**

Ensemble for piano majors or minors. Provides sight reading and ensemble experience for pianists. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

### **MUSE 190 - Special Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 193 - Special Vocal Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

### **MUSE 377 - Orff Ensemble**

Analysis of the compositional techniques of Carl Orff and Gunild Keetman through active participation and playing in ensembles comprised of voice, body percussion, tuned and non-tuned percussion and recorder. Prerequisite(s): MUS 378. 1 credit(s)

**MUSE 403 - Chamber Chorale**

Advanced chamber ensemble with emphasis on a cappella literature of all periods. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 404 - Opera Workshop**

Laboratory course devoted to the performance of operatic excerpts and short operas. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of six credits for each course. 1 credit(s)

**MUSE 405 - Women's Chorus**

Study and performance of sacred and secular choral music for female voices. Required participation in scheduled performances. Open to all members of the university community. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 406 - Varsity Men's Glee Club**

Study and performance of sacred and secular choral music for male voices. Required participation in scheduled performances. Open to all members of the university community. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 407 - Master Chorale**

Mixed choir for music majors, non-majors, and community members which focuses upon a cappella repertoire as well as major works with orchestra. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 408 - Concert Singers**

Concert choir that performs sacred and secular choral music of many styles, including a cappella literature. Required participation in scheduled performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 413 - Wind Orchestra**

Emphasis on wind and percussion literature from all historical periods. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of eight credits. Lab/Lecture/Studio Hours Four hours laboratory. 1 credit(s)

**MUSE 415 - Marching Band**

Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at football games. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. Lab/Lecture/Studio Hours Five hours laboratory. 1 credit(s)

**MUSE 416 - Pep Band**

Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Ensemble designed primarily to perform at basketball games. Prerequisite(s): C or better in MUS 303E. Lab/Lecture/Studio Hours Three hours laboratory. 1 credit(s)

**MUSE 418 - Community Concert Band**

Open to all university students with previous band experience. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. Lab/Lecture/Studio Hours Three hours laboratory. 1 credit(s)

**MUSE 419 - Brass Band**

Ensemble designed to rehearse and concertize literature composed/transcribed for large brass ensemble and percussion. Required participation in scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 420 - Symphonic Winds**

Open to music and select non-music majors who successfully audition at the end of the fall semester. Performs standard wind band literature with an emphasis upon practical pedagogical foundations. Required participation in

scheduled appearances for various events on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 421 - Symphony Orchestra**

Premier university ensemble which rehearses and performs orchestral repertoire from the early Baroque to the present day. Participants selected by audition and the instructor's consent. All selected participants expected to be available for all rehearsals (including occasional evening and dress rehearsals) and performances. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 422 - Chamber Orchestra**

Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day. Prerequisite(s): Successful audition or instructor consent. May be repeated for a maximum of eight credits. Note(s): This course is crosslisted with MUSE 622. Credit at the 600-level requires additional work. 1 credit(s)

**MUSE 424 - New Horizons Band**

Rehearsal and study of wind and percussion literature from all historical periods for members of the university and community. May include scheduled appearances on and off campus. 1 credit(s)

**MUSE 431 - Jazz Ensemble**

Experience in large ensemble performance in the jazz idiom. Required participation in scheduled appearances both on and off campus, including festivals and out-of-town tours. Open to all university students by audition only. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 433 - Jazz Combo**

Jazz Combo experience including the study of appropriate repertoire. Preparation for performances will be done in weekly scheduled combo rehearsals. In addition, each combo will perform two additional concerts, so that a minimum of three performances is required of each combo during the semester. Prerequisite(s): Successful audition or instructor consent. 1 credit(s)

**MUSE 434 - Jazz Guitar Ensemble**

Jazz Guitar Ensemble. Exposes guitar students to a broad spectrum of musical styles, exercises their reading skills, and introduces them to the art of improvisational soloing. Experience the camaraderie of playing in an ensemble and the opportunity to exchange information and ideas. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 435 - Jazz Vocal Ensemble**

Jazz Vocal Ensemble. Exposes the students to performance with emphasis on essential stylistic interpretations associated with the jazz vocal repertoire. A rhythm section will be provided. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 436 - Contemporary Jazz Ensemble**

Rehearsals with performance opportunities in contemporary jazz styles. Students will explore relevant jazz literature and are encouraged to compose original jazz music. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

**MUSE 437 - Jazz Latin Ensemble**

Exposes the students to performance with emphasis on essential stylistic interpretations associated with Latin jazz repertoire. Prerequisite(s): Successful audition or instructor consent. May be repeated for unlimited credit. 1 credit(s)

**MUSE 441 - Woodwind Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 443 - Flute Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. Note(s): This course is crosslisted with MUSE 643. Credit at the 600-level requires additional work. 1 credit(s)

**MUSE 444 - Clarinet Choir**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 445 - Saxophone Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 446 - Brass Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 451 - String Chamber Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 453 - Guitar Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 461 - Percussion Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 462 - Marimba Band**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 463 - African Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. Note(s): This course is crosslisted with MUSE 663. Credit at the 600-level requires additional work. 1 credit(s)

**MUSE 464 - Percussion and Dance**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. Note(s): This course is crosslisted with MUSE 664. Credit at the 600-level requires additional work. 1 credit(s)

**MUSE 465 - Steel Drum Band**

The UNLV Steel Band performs music of many genres predominantly the music indigenous to Jamaica and Trinidad. Students will develop the ability and skills to play a variety of steel pans, percussion instruments and drum set. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of ten credits. 1 credit(s)

**MUSE 466 - Hand Drum Ensemble**

Art of playing a variety of hand drums from around the world. Students exposed to authentic patterns, techniques and the general drum circle experience. Beginning and advanced ensembles accommodate the needs of all participants. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of ten credits. 1 credit(s)

**MUSE 471 - Piano Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight time. 1 credit(s)

**MUSE 472 - Accompanying**

Develops skills needed in vocal and instrumental accompanying. Fulfills 1 credit of ensemble requirement for piano majors. Prerequisite(s): Successful audition or instructor consent. May be repeated. 1 credit(s)

**MUSE 480 - Opera Production**

Involvement as a performer or production assistant in an opera/opera production. Prerequisite(s): Successful audition or instructor consent. May be repeated to a maximum of six credits. 1 credit(s)

**MUSE 490 - Special Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. 1 credit(s) Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times.

**MUSE 493 - Special Vocal Ensemble**

Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Prerequisite(s): Successful audition or instructor consent. May be repeated a maximum of eight times. 1 credit(s)

**MUSE 494 - Collegium**

Study, performance, and researching of early and rarely performed music of historical importance, including new and unperformed works. Performances prepared for both university and public presentation. Open to qualified personnel by audition and consent of instructor. The Collegium determines its own procedural policies. (A) Madrigal singers (B) Early Music Consort Prerequisite(s): Successful audition or instructor consent. 1 credit(s)

**MUSE 495 - Nextet**

Teaching and performance of contemporary music, with special emphasis on the historic approach to the many styles that have developed from early twentieth century to the present time. Also involves the learning and proper execution of various new notational styles. Prerequisite(s): Successful audition or instructor consent. May be repeated for credit. 1 credit(s)

# Theatre

## ***Purpose and Focus***

The Bachelor of Arts degree allows the student to pursue theatre as a major in the context of a liberal arts curriculum. The degree seeks the integration of the theory and practice of the theatre arts. Students explore theatre as an intellectual discipline and a performing and visual art as well as a technique and a craft. The Department of Theatre also provides cultural enrichment for the university and community through the university theatre season.

## ***Accreditation***

Northwest Commission on Colleges and Universities  
National Association of Schools of Theatre

## ***Undergraduate Majors***

Theatre — Bachelor of Arts

## ***Areas of Concentration***

### **Theatre Bachelor of Arts: Design/Technology**

Offers specialized training in costume, lighting, scenic design, and theatre technology for the student pursuing a career as a professional designer/technician or conservatory training beyond the baccalaureate level.

### **Theatre Bachelor of Arts: Stage and Screen Acting**

Offers specialized acting, camera, voice, movement, dance and singing training for students pursuing a career as a professional actor or conservatory training beyond the baccalaureate level.

### **Theatre Bachelor of Arts: Theatre Studies**

Offers a generalized study in all aspects of the theatre for students seeking a professional career in teaching and/or continued practical, artistic, or scholarly study beyond the baccalaureate level.

## ***Admission to the Major***

- Minimum GPA: 2.30
- Students in Theatre must declare an area of concentration in stage and screen acting, design/technology, or theatre studies.
- Students in Theatre changing an area of concentration must complete all required courses in their new concentration.

**Transfer Policies:** Articulation of transfer credit will be determined by the department chairperson or the undergraduate coordinator. No more than 50 percent of the course work required for a Bachelor of Arts degree in theatre may be transferred. Articulation of transfer credit in the selected area of concentration must be made in consultation with faculty of the respective area of concentration.

## ***Department Policies***

### **All Theatre Majors**

- Students must maintain a minimum 2.70 (B-) GPA.
- Students must maintain continuing enrollment by registering each term after matriculation (summer excluded) for at least three credits of work related to meeting specific degree requirements.
- Students must be available for participation in productions that are an official part of the university theatre season.

- Students must meet with an academic advisor in advance of registration for the approval of a class schedule and assessment of academic progress.
- Students in Theatre must declare an area of concentration in stage and screen acting, design/technology, or theatre studies.

### **Stage and Screen Acting (SSA) Concentration**

- Admission to the concentration is by audition only. Contact the Department of Theatre for information about dates and audition schedules.
- Continuation in the concentration is determined by the quality of class work, performance projects, and the end of semester evaluations. Failure to be placed in the appropriate course work toward the completion of the degree requirements may result in suspension from the concentration. In some cases students may be placed on probationary status for deficiencies in particular areas of study (voice, movement, acting, style, language). Students placed on probation may be required to successfully repeat specific performance courses or complete additional courses specified by the SSA faculty. Repeatable technique courses are a common practice in the technical training of the actor.
- The SSA is a pre-professional program in which all courses must be taken in a very specific sequential order. Each student must enroll in courses prescribed by the SSA Faculty. Failure to do so may result in delayed graduation or separation from the concentration.
- Students must audition for (and be available for participation in) all productions that are an official part of the university theatre season. Performance work in university theatre productions is an extension of the classroom and a practical laboratory for all SSA concentration students. Students unable to audition must submit in advance a written request for a waiver to the head of SSA. Participation in production includes attendance at rehearsals, performances, costume and photo calls, and strike.
- Students at the Junior and Senior level must submit a written request to the head of SSA for prior approval of any performance opportunity which is not an official part of the university theatre season. This includes but is not limited to ancillary class projects, community and professional theatre.

### **Design/Technology Concentration**

- Students must meet all obligations and requirements with respect to design/technology assignments in major and studio productions that are an official part of the university theatre season as well as class scenes and ancillary productions. This includes attendance at strike, photo calls, production meetings and any and all obligations and requirements articulated by design/technology faculty.
- Students must participate in the semester's end portfolio review each semester until the completion of the degree.
- Students must enroll in and successfully complete all courses specified by the design/technology faculty at the semester's end portfolio review.
- Continuation is determined by a semester's end portfolio review. In some cases, students may be placed on probationary status for deficiencies in particular areas of study. Students placed on probation may be required to successfully repeat specific design/technology courses or complete additional courses specified by the design/technology faculty.



**Probation/Suspension:** Failure to comply with department policies may result in probation or suspension. Students placed on probation may be subject to the following sanctions: be given a semester's grace period to improve GPA to comply with concentration or department policies; and/or achieve satisfactory academic progress, be required to repeat or complete additional remedial course work, be denied enrollment in course work in their area of concentration and/or the Department of Theatre, and/or be denied participation in production projects sponsored by the Department of Theatre. Students placed on suspension will be separated from their area of concentration and/or the Department of Theatre.

## Advising

Every student majoring in theatre is expected to have a schedule approved each term, in advance of registration, by an academic advisor. Any subsequent change in schedule requires an additional endorsement. Failure to seek academic advising may result in delays to anticipated date of graduation.

## Scholarships

The Department of Theatre offers scholarship and grant-in-aid awards to students who receive above-average grades and demonstrate scholastic and creative excellence in the theatre. Scholarship applications and audition information are available through the department office. Additionally, interested students are encouraged to apply for financial awards through the university Office of Student Financial Services.

Theatre Major (BA)

### Theatre Major - Bachelor of Arts (BA)

Please see the UNLV College of Fine Arts - Department of Theatre web page at <http://www.unlv.edu/theatre> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Fine Arts Advising Center at [www.unlv.edu/finearts/advising](http://www.unlv.edu/finearts/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Objectives

1. Communication Techniques- visual communication techniques
2. Production Skills- responsibility for a production aspect
3. Academic Skills- writing, research, discussion
4. Professional preparation- self marketing as is timely and appropriate in their program.
5. The ability to study and analyze plays; an understanding of genre, style, and direction.
6. An understanding of the contextual importance of theatre in the humanities, in the fine arts and part of the human experience.
7. Research- Gather, interpret and communicate historic, interpretive, and conceptual ideas within the theatrical framework.
8. Collaboration- Build verbal and written communication skills with all members of the collaborative design and production team.

### University Graduation Requirements

- Please see Graduation Policies for complete information.
- Theatre Degree Requirements..... Total: 120 Credits  
General Education Requirements..... Subtotal: 37-40 Credits  
First-Year Seminar ..... Credits: 2-3  
English Composition ..... Credits: 6

- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 4-6
- HIST 100 - Historical Issues and Contemporary Society
- or
- PSC 101 - Introduction to American Politics
- Mathematics..... Credits: 3  
Distribution Requirements ..... Credits: 19  
Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
    - Automatically satisfied by Major requirements
  - Social Science: 9 credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking: 10 credits
    - Two courses from Life and Physical Science; at least one course must have a lab
    - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning
- Multicultural and International  
Multicultural, one 3 credit course required  
International, one 3 credit course required  
These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>
- Major Requirements - BA in Theatre -  
Design /Technology Concentration ..... Subtotal: 75 Credits  
Theatre..... Credits: 42
- THTR 199 - Play Structure and Analysis I
  - THTR 200 - Introduction to Design/Technology
  - THTR 201 - Costume Design I
  - THTR 202 - Scenic Design I
  - THTR 203 - Lighting Design I
  - THTR 204 - Theatre Technology I • THTR 230 - Voice and Movement for the Actor I
  - THTR 231 - Acting: Basic Technique
  - THTR 380 - Stage Management
  - THTR 406 - CAD for the Theatre
  - THTR 454 - Directing Laboratory
  - THTR 461 - Play Structure and Analysis II
  - THTR 481 - Theatre History I
  - THTR 482 - Theatre History II
- Design/Technology ..... Credits: 9  
Select three of the following or repeat any combination:
- THTR 401 - Costume Design II
  - THTR 402 - Scenic Design II
  - THTR 403 - Lighting Design II
  - THTR 404 - Theatre Technology II
- Seminar..... Credits: 6  
Select two of the following or repeat any combination:
- THTR 405 - Introduction to Design and Production
  - THTR 483 - Period and Style for Theatrical Design and Technology
  - THTR 484 - Professional Perspectives
- Dramatic Literature..... Credits: 6  
Fine Arts ..... Credits: 12  
Select two from:
- ART 260 - Survey of Art History I
  - ART 261 - Survey of Art History II

- ART 266 - Survey of Art History III
- MUS 121 - Music Appreciation

and two additional from a department approved list.

Electives..... Credits: 5-8

Major Requirements - BA in Theatre -  
Stage and Screen Acting Concentration .....Subtotal: 78 Credits

Theatre..... Credits: 54

- THTR 199 - Play Structure and Analysis I
- THTR 200 - Introduction to Design/Technology
- THTR 230 - Voice and Movement for the Actor I
- THTR 231 - Acting: Basic Technique
- THTR 240 - Acting: Camera
- THTR 330 - Voice and Movement for the Actor II
- THTR 331 - Acting Studio II: Technique
- THTR 335 - Speech for the Actor I
- THTR 380 - Stage Management
- THTR 430 - Voice and Movement for the Actor III
- THTR 431 - Acting: Scene Study
- THTR 435 - Speech for the Actor II
- THTR 454 - Directing Laboratory
- THTR 467 - Acting: Audition
- THTR 481 - Theatre History I
- THTR 482 - Theatre History II
- THTR 493 - Acting as a Profession

Select from the following ..... Credits: 6

- DAN 108 - Pilates I
- DAN 116 - Hip Hop I
- DAN 132 - Jazz Dance I
- DAN 135 - Ballet I
- DAN 138 - Modern Dance I
- DAN 144 - Tap Dance (Beginning)
- MUSA 174 - Voice for Musical Theatre Majors
- MUSA 248 - Voice for Musical Theatre Majors IV
- MUSA 348 - Voice for Musical Theatre Majors VI

Design/Technology..... Credits: 3

Select one of the following:

- THTR 201 - Costume Design I
- THTR 202 - Scenic Design I
- THTR 203 - Lighting Design I
- THTR 204 - Theatre Technology I

Select one of the following options:

Option A ( Stage/Screen) ..... Credits:18

- THTR 440 - Voice and Movement for the Actor IV
- THTR 441 - Cold Reading for the Actor

Two of the following:

- THTR 468 - Acting: Shakespeare
- THTR 469 - Acting: Comedy of Manners
- THTR 470 - Acting: Modern Styles
- THTR 471 - Acting: Musical Theatre

Two of the following:

- THTR 342 - Acting: Daytime Drama (Soaps)
- THTR 343 - Acting: Commercials
- THTR 344 - Acting: Situation Comedy
- THTR 346 - Acting: Film

Option B (Stage) ..... Credits: 18

THTR 440, 468 , 469, 470,471 (15 credits)

One of the following: THTR 342,343, 344,346 (3 credits)

Option C (Screen) ..... Credits: 18

THTR 342, 343, 344,346,441 (15 credits)

One of the following: THTR 468 ,469, 470,471 (3 credits)

Electives..... Credits: 5-7

Major Requirements - BA in Theatre - T

heatre Studies Concentration.....Subtotal: 51 Credits

Theatre..... Credits: 36

- THTR 199 - Play Structure and Analysis I
- THTR 200 - Introduction to Design/Technology
- THTR 201 - Costume Design I
- THTR 202 - Scenic Design I
- THTR 203 - Lighting Design I
- THTR 204 - Theatre Technology I
- THTR 230 - Voice and Movement for the Actor I
- THTR 231 - Acting: Basic Technique
- THTR 380 - Stage Management
- THTR 454 - Directing Laboratory
- THTR 481 - Theatre History I
- THTR 482 - Theatre History II

Performance ..... Credits: 9

- THTR 330 - Voice and Movement for the Actor II
- THTR 331 - Acting Studio II: Technique

and one of the following:

- THTR 240 - Acting: Camera
- THTR 243 - Staging for the Actor
- THTR 245 - Basic Stage Combat
- THTR 247 - Beginning Improvisation
- THTR 306 - Advanced Acting
- THTR 445 - Stage Combat
- THTR 447 - Acting: Improvisation
- THTR 471 - Acting: Musical Theatre

Design/Technology..... Credits: 3

Select one of the following:

- THTR 401 - Costume Design II
- THTR 402 - Scenic Design II
- THTR 403 - Lighting Design II
- THTR 404 - Theatre Technology II

or

- THTR 480 - Stage Management II

Fine Arts ..... Credits: 3

Select one of the following:

- ART 260 - Survey of Art History I
- ART 261 - Survey of Art History II
- ART 266 - Survey of Art History III
- MUS 121 - Music Appreciation

Theatre Electives..... Credits: 9

Dramatic Literature..... Credits: 6

Electives..... Credits: 16-17

Total Credits: ..... 120

## Minor

### Theatre Minor (24 credits)

Non-theatre majors may declare a minor through the department office. All students pursuing a minor in theatre must complete THTR 199 and an additional 21 credits prefixed THTR. A minimum of 12 credit hours must be at the 300–400 level. Work in the minor must be completed by the date of graduation in the student's major field of study. A minimum of nine credit hours must be completed in residence at UNLV.

Theatre minors wishing to enroll in courses designated for theatre majors only should consult with a department advisor for placement and specific requirements.

## Certificate

### Secondary Teacher Certification: Theatre

Students wishing to certify in teacher education should contact the College of Education Advising Center (CEB 144) for the requirements leading to a certification track in theatre education.

All students pursuing teacher certification who wish to take courses designated for majors only must officially register with the Department of Theatre.

## Theatre

### THTR 100 - Introduction to Theatre

Explores theatre as a cultural attribute of world society. Special focus on theatre as an expression of culture, a representation of international themes, and its contribution to the development of civilization. Note(s): Satisfies International and Fine Arts Requirement. Not open to declared theatre majors. 3 credit(s)

### THTR 102 - Introduction to Stage Voice

Fundamentals of voice production including relaxation, alignment, breath, resonance and articulation. Vocal health and the physiological aspects of voice/speech production. Students complete numerous performance projects. Note(s): Intended for non-majors only. 3 credit(s)

### THTR 105 - Introduction to Acting I

Fundamentals of acting with emphasis on improvisation and personalization through the exploration of selected scenes and monologues. Note(s): Intended for non-majors only. 3 credit(s)

### THTR 108 - Introduction to Playwriting

Fundamentals of the craft of writing plays, stressing elements such as plot, character, dialogue, and structure. Emphasis on writing short plays. 3 credit(s)

### THTR 111 - Theatre Practicum

Students assigned a practical laboratory experience in Theatre Production - costume, scenery, lights, sound or props. May be repeated for a maximum of 4 credits. 1 credit(s)

### THTR 121 - Stage Makeup

Acquaints the student with the beginning principles of makeup and progresses to character makeup. Prerequisite(s): Theatre major. 1 credit(s)

### THTR 122 - Theatre for Senior Adults

Apply acting, directing, and creative drama techniques to senior adult populations. Students work with adults at senior centers, senior adult residences, and in-class productions. Prerequisite(s): Junior or senior standing for non-majors, adults 55 or older.

### THTR 124 - Introduction to Gay Plays

Survey course in which students read, analyze, and discuss selected gay plays. Note(s): Satisfies Multicultural and Fine Arts Requirement. 3 credit(s)

### THTR 126 - Introduction to Women Playwrights

Introduction to dramatic literature for the stage written by women. Women's history, theatrical conventions, performance theories, and theatrical activity explored in addition to their writing. Focuses on theatrical texts written by women. Duplicate credits cannot be earned for THTR 126 and 426. 3 credit(s)

### THTR 128 - Introduction to Black Drama and Performance

Introduction to the origins and development of Black American Drama and black practitioners of the theatre arts from 1800s to contemporary times. Duplicate credits cannot be earned for THTR 128 and THTR 428. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

### THTR 140 - Beginning Singing for Actors

Basic skills in musicianship, vocal production, breath support, and the use of the singing voice. Prepares students for private study and the musical theatre stage. 3 credit(s)

### THTR 175 - Introduction to Musical Theatre Literature

Survey course intended to provide an appreciation of musical theatre, with primary focus on the contemporary musical. 3 credit(s)

### THTR 176 - Musical Theatre Workshop

Workshop in the techniques of performance of material from musical plays. May be repeated to a maximum of six credits. 3 credit(s)

### THTR 198 - Special Topics

Study in special or unique areas of theatre. Topics announced in the class schedule each semester. May be repeated to a maximum of six credits. 1-4 credit(s)

### THTR 199 - Play Structure and Analysis I

Introduction to the study of basic principles of script analysis: form, style, structure, theme. Survey of theatrical literature from Ancient Greece to the present. 3 credit(s)

### THTR 200 - Introduction to Design/Technology

Introduction to the basic design and technical components of theatrical production, and their related goals, as they combine with acting to create theatre. Through lecture, projects, and discussion, students will attain a basic understanding of the collaborative nature of production. Course is co-taught by design and technology faculty. 3 credit(s)

### THTR 201 - Costume Design I

Covers both civil and theatrical costume design. Major concerns of the stage costume designer addressed including: research methodology, the creation of period style, and the importance of both visual and verbal communication in the collaborative process. Participation in departmental productions integral to the course. Prerequisite(s): THTR 199 and THTR 200. 3 credit(s)

### THTR 202 - Scenic Design I

Study and practice of design for the stage through controlled use of color, line, mass, space, and light. Techniques of scene painting and rendering. Participation in departmental productions integral to the course. Prerequisite(s): THTR 199 and THTR 200. Lab/Lecture/Studio Hours Two hours lecture and four hours laboratory. 3 credit(s)

### THTR 203 - Lighting Design I

Study of the historic, aesthetic, technical, and practical aspects of stage lighting. Participation in departmental productions integral to the course. Prerequisite(s): THTR 199 and THTR 200. Lab/Lecture/Studio Hours Two hours lecture and four hours laboratory. 3 credit(s)

### THTR 204 - Theatre Technology I

Fundamentals of technical theatre production. Includes a laboratory unit of a minimum of 40 hours and involves participation in crews for departmental productions. Prerequisite(s): THTR 199 and THTR 200. Lab/Lecture/Studio Hours One hour lecture and two hours laboratory. 3 credit(s)

### THTR 216 - Freshman Performance Laboratory

Laboratory complements the freshman acting/voice and movement sequence courses. Explores and expands on basic techniques and methods presented in Acting Studio/Voice & Movement I and II. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor. Note(s): Concurrent enrollment in THTR 230 & 231 and/or 330 & 331 required. 0 credit(s)

### THTR 217 - Entertainment Sound I

This is the entry-level course for sound design and technology in the live entertainment industry. Students will become familiar with basic theatre terminology, audio equipment and the sound design process. Prerequisite(s): MUS 231. Note(s): Same as EED 217. 3 credit(s)

### THTR 223 - Theatre for Senior Adults: Practical Application

Ongoing laboratory class for advanced senior adult theatre students who wish to research and develop senior theatre projects. Particular attention paid to oral history and the dissemination of new plays for senior adults. Prerequisite(s): THTR 122. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 225 - Theatre for Senior Adults: Scene Study**

Intensive and extensive study in monologue and scene work. Role analysis and performance preparation adapted to the special requirements of most older adults, particularly in the areas of physicalizing a role, concentration, and line memorization. Emphasis given to scripts that show older adulthood from various ethnic, racial, and religious viewpoints. Prerequisite(s): THTR 122. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**THTR 230 - Voice and Movement for the Actor I**

Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor's voice and body. May be repeated for a maximum of nine credits. Note(s): For majors only. 3 credit(s)

**THTR 231 - Acting: Basic Technique**

Beginning acting technique. Explores the actor's craft through impulse, sense and emotional memory, subtext, action/objective and active listening. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 240 - Acting: Camera**

Introduction to the concept and practice of performing on camera and working with directors. Performance and discussion of scenes from television, film, and commercials. Discussion of the business of the entertainment industry. Prerequisite(s): THTR 231. 3 credit(s)

**THTR 243 - Staging for the Actor**

Co-taught with theatre and film faculty. Student actors work in collaboration with film student directors on assigned projects filmed in and out of class. 3 credit(s)

**THTR 245 - Basic Stage Combat**

Explores principles of stage violence in historical and contemporary theatre for beginning students. Note(s): Participation as an actor/combatant required. 3 credit(s)

**THTR 247 - Beginning Improvisation**

Exploration of basic theatrical improvisation for general students. Focuses on spontaneity, flexibility, and structure. Variety of theatrical styles and improvisational techniques explored. 3 credit(s)

**THTR 306 - Advanced Acting**

Scene and monologue study with emphasis on audition technique, character analysis, rehearsal process, and performance proficiency. Intended for non-majors only. Prerequisite(s): THTR 105. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 316 - Sophomore Performance Laboratory**

Laboratory complements the sophomore acting sequence courses. Explores and expands on basic techniques and methods presented in the Acting Studio III, IV and VIII. Lab time also be used for scene presentations, workshops by guest artists or other activities specified by the instructor. Note(s): Concurrent enrollment in THTR 431, THTR 467 or THTR 471 is required. 0 credit(s)

**THTR 317 - Entertainment Sound II**

This is the intermediate-level course for sound design and technology in the live entertainment industry. Students will become familiar with live sound reinforcement theory and techniques. Prerequisite(s): EED 217 or THTR 217. Note(s): Same as EED 317. 3 credit(s)

**THTR 322 - Oral History Theatre**

Focuses on the study of the development, structure and performance technique of oral history theatre revues. Methods presented along with guidelines for adapting the techniques to a variety of age groups participating in the revue process. Culminates with a class production of an actual revue in a community venue. Prerequisite(s): THTR 122, THTR 199. 3 credit(s)

**THTR 330 - Voice and Movement for the Actor II**

Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor's voice and body. For majors only. Prerequisite(s): THTR 230. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 331 - Acting Studio II: Technique**

Intermediate acting technique. Continues the development of the actor's craft. Topics include: action/objective, ensemble skills, beginning character development and scenework. Prerequisite(s): THTR 231 and concurrent enrollment in THTR 330. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 335 - Speech for the Actor I**

Beginning speech for the stage. Focuses on developing clear and intelligible speech for the stage. Topics include: articulation, International Phonetic Alphabet, phrasing, stress, rhythm, intensity, and clarity of thought. Prerequisite(s): THTR 230. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 340 - Intermediate Singing for Actors**

Continued instruction in vocal technique and its application to the musical theatre stage. Primary focus on vocal health and maintenance through the study of operatic vocal techniques. Prerequisite(s): THTR 140. 3 credit(s)

**THTR 341 - Advanced Acting for the Camera**

Combined monologue and scene study course. Focus on building, sustaining and developing a believable character and actor relationship, and transferring performance from stage to screen. Prerequisite(s): THTR 231, 331. 3 credit(s)

**THTR 342 - Acting: Daytime Drama (Soaps)**

Students learn rules and practice art of performing television daytime drama sometimes described as "soap operas." Scene work done from actual soap opera scripts. Two-three camera set-ups utilized. Prerequisite(s): THTR 240. 3 credit(s)

**THTR 343 - Acting: Commercials**

Advanced course in commercial acting. Builds on the foundation for commercial auditioning and performing by introducing varying forms and techniques for copyreading, script analysis, handling products and script-in-hand techniques. Focuses on individual actor personality and marketing as well. Prerequisite(s): THTR 240. 3 credit(s)

**THTR 344 - Acting: Situation Comedy**

Students learn the rules and practice the art of performing television comedy. Scene work done from actual sit-com scripts. Two-three camera set-ups utilized. Prerequisite(s): THTR 240. 3 credit(s)

**THTR 345 - Movement for the Actor I**

Fundamentals of major movement disciplines and theoretical principles that underlie the most dynamic approaches in movement study for the actor. Students put theoretical principles into action and describe or critique major movement approaches. Prerequisite(s): THTR 230 or THTR 231. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 346 - Acting: Film**

Students work in collaboration with film directing students performing scenes from an actual movie script. Scenes viewed and evaluated on a big screen and an invited director from the Hollywood industry guest lectures on a regular basis. Prerequisite(s): THTR 240. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 347 - Acting for the Camera Director II**

AFC students work in collaboration with film directing students performing scenes from an actual movie script. Scenes viewed and evaluated on a big screen and an invited director from the Hollywood industry guest lectures on a regular basis. Prerequisite(s): THTR 346. 3 credit(s)

**THTR 353 - Theatre for Senior Adults: Practicum**

Students assigned a practical laboratory experience in a Senior Adult Theatre Performance – acting, directing, or technical support. Prerequisite(s): THTR 225. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 380 - Stage Management**

Study and practice of the art of theatre stage management. Participation in departmental productions integral to the course. Prerequisite(s): THTR 200 and one of the following THTR 201, 202, 203 or 204. 3 credit(s)



**THTR 401 - Costume Design II**

Exploration of the role of costume designer from first rough sketches to colored renderings to fabric selection. Other areas include: play/character analysis, presentation strategies and director/designer communication. Participation in departmental productions integral to the course. Prerequisite(s): THTR 201. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 402 - Scenic Design II**

Practical application of the principles of scenic, costume, and lighting design. Participation in departmental productions integral to the course. Prerequisite(s): THTR 202. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 403 - Lighting Design II**

Aesthetics and artistry of stage lighting design. Historical and contemporary solutions to lighting for theatre, dance, opera and television explored through design projects. Prerequisite(s): THTR 203. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 404 - Theatre Technology II**

Theory and practice of advanced scenery construction techniques; theatrical rigging and specialty materials as related to production demands of the Department of Theatre. Prerequisite(s): THTR 204. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 405 - Introduction to Design and Production**

Topics may include the following: Research techniques, period styles and decoration, portfolio development for admission to professional schools, realized design projects, stage design and the collaborative art, the designer's process and professional ethics. Prerequisite(s): THTR 201, THTR 202, THTR 203, THTR 204. Offered for three credits and may be repeated for up to six credits. 3 credit(s)

**THTR 406 - CAD for the Theatre**

Explores the use of computer-aided drafting in theatre design and technology. Includes training in Minicad, MacLUX Pro, and other Macintosh programs available for use in theatre design and technology practices. Prerequisite(s): THTR 202, THTR 203, or THTR 204. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 407 - Sound Design for the Theatre**

Art and technical implementation of sound design for theatrical production is developed through lectures, projects, research paper, demonstrations, and practical experience. Creation of sound design for a current production is required. Prerequisite(s): THTR 204. 3 credit(s)

**THTR 411 - Theatre Practicum II**

Students assigned a practical laboratory experience in Theatre Production - costume, scenery, lights, sound or props. Prerequisite(s): THTR 111. May be repeated for a maximum of four credits. 1 credit(s)

**THTR 412 - TV/Film Script Analysis**

Actors will learn how to break down a script and create the richest and most varied character that will embody the script's time period and unique world. Prerequisite(s): THTR 342, 343, 344. 3 credit(s)

**THTR 413 - Drama of Today**

Study of contemporary dramatic literature, limited to plays written approximately within the last ten to twenty years. 3 credit(s)

**THTR 415 - Junior/Senior Voice & Movement Laboratory**

Laboratory complements junior/senior voice and movement sequence courses. Explores and expands on basic techniques and methods presented in Voice & Movement III and IV. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor. Note(s): Concurrent enrollment in THTR 430 or 440 required. 0 credit(s)

**THTR 416 - Junior/Senior Performance Laboratory**

Laboratory complements junior/senior acting sequence courses. Explores and expands on basic techniques and methods presented in Acting Studio V and VI and VII. Lab time also used for scene presentations, workshops by guest artists or other activities specified by the instructor. Note(s): Concurrent enrollment in THTR 468, 469 or 470 required. 0 credit(s)

**THTR 417 - Entertainment Sound III**

This is an advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with sound system design and installation in live entertainment venues. Prerequisite(s): EED 317 or THTR 317. Note(s): Same as EED 417. 3 credit(s)

**THTR 418 - Entertainment Sound IV**

A continuation of the advanced-level course for sound design and technology in the live entertainment industry. Students will become familiar with the business of sound system design and installation in live entertainment venues. Students will also become familiar with effective system planning and integration from the end-user point of view. Prerequisite(s) EED 417 or THTR 417. Note(s) Same as EED 418. 3 credit(s)

**THTR 421A - Entertainment and Fine Arts Law I**

Protection of works created by entertainers and artists, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special consideration to film and music industries. Note(s): Same as AAD 421A, DAN 421A. This course is crosslisted with THTR 621A. Credit at the 600-level requires additional work. 3 credit(s)

**THTR 421B - Entertainment and Fine Arts Law II**

Unique legal issues in the fields of live stage performance, theatre, music, television and film, the art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems. Prerequisite(s): DAN 421A, THTR 421A. Note(s): Same as AAD 421B, DAN 421B. This course is crosslisted with THTR 621B. Credit at the 600-level requires additional work. 3 credit(s)

**THTR 424 - Gay Plays**

Study of selected gay plays which includes an examination of appropriate themes and issues. Note(s) Satisfies Multicultural Requirement. 3 credit(s)

**THTR 426 - Women Playwrights**

Study of dramatic literature for the stage written by women. Women's history, theatrical conventions, performance theories, and theatrical activity explored in addition to their writing. Focuses on theatrical texts written by women. Duplicate credits cannot be earned for THTR 126 and 426. Prerequisite(s): Junior standing. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**THTR 428 - Black Drama and Performance**

Study of the origins and development of Black American Drama and Black practitioners of the theatre arts from 1800s to contemporary times. Duplicate credits cannot be earned for THTR 128 and THTR 428. Prerequisite(s): Junior standing. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**THTR 430 - Voice and Movement for the Actor III**

Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor's voice and body. Prerequisite(s): THTR 330. May be repeated for a maximum of nine credits. Note(s): For majors only. 3 credit(s)

**THTR 431 - Acting: Scene Study**

Rehearse and present scenes from contemporary theatre. Emphasis on technique, characterization, action/objective and ensemble skills. Prerequisite(s): THTR 231. 3 credit(s)

**THTR 435 - Speech for the Actor II**

Advanced Speech for the stage. Topics include advanced studies in the International Phonetic Alphabet, attention to individual speech problems, phrasing, stress, rhythm, intensity, and clarity of thought and development of elevated language pieces. Prerequisite(s): THTR 335. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 440 - Voice and Movement for the Actor IV**

Voice and movement technique for the actor. Focuses on developing alignment, coordination, strength, flexibility and mobility of the actor's voice and body. Prerequisite(s): THTR 430. May be repeated for a maximum of nine credits. Note(s): For majors only. 3 credit(s)

**THTR 441 - Cold Reading for the Actor**

Advanced performance course designed to aid the actor in giving a believable character portrayal with limited access to the script and limited information about the character. 3 credit(s)

**THTR 442 - Casting for the Camera**

Advanced workshop course. Students take part in casting sessions conducted by professional casting directors and in real life situations. Professional protocol strictly adhered to, creating the professional audition environment. 3 credit(s)

**THTR 444 - Acting: Voice-over**

This course explores the art of using the voice to sell, inform and entertain. Techniques for a professional career are taught. Genres covered include commercials, promos, narration, PSA's, animation, radio imaging, CD rom, political spots and jingles. A fully produced reel is the goal of the course. Prerequisite(s): THTR 231. 3 credit(s)

**THTR 445 - Stage Combat**

Explores principles of stage violence in historical and contemporary theatre for advanced students. Focus also on the role of Fight Choreographer. Prerequisite(s): THTR 100, THTR 105, THTR 230 or THTR 231. Note(s): Participation as an actor/combatant required. 3 credit(s)

**THTR 447 - Acting: Improvisation**

Exploration of theatrical improvisation for advanced students. Focuses on spontaneity, flexibility, and structure. Variety of theatrical styles and improvisational techniques explored with focus on role of improvisation as a rehearsal technique. Prerequisite(s): THTR 105 and THTR 231. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 453 - Playwriting**

Practice in the craft of writing plays exploring such aspects as image, metaphor, style, and tone. Prerequisite(s): One of the following: ENG 205, THTR 108, or THTR 199. 3 credit(s)

**THTR 454 - Directing Laboratory**

Introduction to the basic principles and techniques of play direction. 3 credit(s)

**THTR 461 - Play Structure and Analysis II**

Study in script analysis including form, style, literal and metaphorical content and themes. Prerequisite(s): THTR 199. 3 credit(s)

**THTR 467 - Acting: Audition**

Practical aspects of developing audition techniques. Emphasis on techniques for interviews, cold readings, call backs, and other aspects of the profession. Prerequisite(s): THTR 231. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 468 - Acting: Shakespeare**

Classical text with emphasis on Shakespeare. Actors explore scansion, phrasing, and vocal expansiveness through scene and monologue work. Prerequisite(s): THTR 231. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 469 - Acting: Comedy of Manners**

Seventeenth- and eighteenth-century Comedy of Manners. Emphasis on period movement and the intrinsic demands of the text with respect to timing and rhythm. Prerequisite(s): THTR 231. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 470 - Acting: Modern Styles**

Advanced scene study of American, British, and continental dramatists of the period loosely termed Modern, including Ibsen, Strindberg, Chekhov, Genet, Beckett, Williams, O'Neill, Shaw, Wilde. Prerequisite(s): THTR 231. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 471 - Acting: Musical Theatre**

Advanced workshop in the techniques of performance of material from musical plays. Prerequisite(s): THTR 231. May be repeated for a maximum of six credits. 3 credit(s)

**THTR 474A - Actor/Director Relationship**

Acting students work with directing students enrolled in THTR 474B on a collaborative process to create a complete theatrical entity. Emphasis on the rehearsal process and technique, development of short plays and original works. Prerequisite(s): THTR 230 and THTR 231. May be repeated to a maximum of nine credits. 1-3 credit(s)

**THTR 474B - Director/Actor Relationship**

Directing students work with acting students enrolled in THTR 474A on a collaborative process to create a complete theatrical entity. Emphasis on the rehearsal process and technique, development of short plays and original works. Prerequisite(s): THTR 230 and THTR 231. May be repeated to a maximum of nine credits. 3 credit(s)

**THTR 475 - Musical Theatre Literature**

Study of selected plays of the American and European musical theatre. Prerequisite(s): THTR 175. 3 credit(s)

**THTR 478 - Internship**

Internship at regional centers of theatre activity. Prerequisite(s): Theatre major with junior/senior standing. May be repeated to a maximum of six credits. 1-4 credit(s)

**THTR 480 - Stage Management II**

Rotating topics may include theatrical unions overview, rehearsal and work related rules, production management and theatre management as related to stage management. Prerequisite(s): THTR 380. May be repeated for a maximum of nine credits. 3 credit(s)

**THTR 481 - Theatre History I**

Study of theatre within the political and social context of Western Europe from Classical Greece to the mid-nineteenth century. Representative plays read and discussed. Prerequisite(s): THTR 100 or THTR 199. Note(s): This course is crosslisted with THTR 681. Credit at the 600-level requires additional work. 3 credit(s)

**THTR 482 - Theatre History II**

Study of the evolution of theatre within the cultural, political, and social context of Europe, United States, Africa, and South America from the beginnings of realism to the present. Prerequisite(s): THTR 100 or THTR 199. Note(s): Representative plays discussed. This course is crosslisted with THTR 682. Credit at the 600-level requires additional work. 3 credit(s)

**THTR 483 - Period and Style for Theatrical Design and Technology**

Period and Style for Design and Technology: Research and study of furniture and architecture styles through time as they are referenced in the production of scenery and stage props. Prerequisite(s): Junior standing and THTR 200. 3 credit(s)

**THTR 484 - Professional Perspectives**

Master Class by professional theatre specialists. Study may focus on any and all areas of entertainment theory and production. credits variable from 1-3, may be repeated up to nine credits. Prerequisite(s): THTR 200. 1-3 credit(s)

**THTR 490 - AFC Special Topics**

Study in special or unique area of film or TV acting. Topics to be cleared with the department at beginning of the semester. May be used for THTR degree requirement only with prior consent of the undergraduate advisor. Prerequisite(s): THTR 442. May be repeated to a maximum of six credits. 3 credit(s)

**THTR 491 - Special Topics**

Study in special or unique areas of theatre. Topics announced in the class schedule each semester. May be used for THTR degree requirement only with prior consent of the undergraduate advisor. May be repeated to a maximum of six credits. 1-4 credit(s)

**THTR 493 - Acting as a Profession**

An in depth look at graduate training programs and career opportunities for professional actors. Emphasis on programs and professional theatres as well as resume, headshots, unions, agents, managers and audition technique. Prerequisite(s): THTR 231. 3 credit(s)

**THTR 495 - Supervised Individual Study**

Tutorial study of special problems in theatre. Student submits a detailed project description agreed upon first by student and instructor and then by two other members of the theatre faculty. May not be used in meeting the core requirement credits. Prerequisite(s): Junior or senior standing; permission in advance of registration from the undergraduate advisor. May be repeated to a maximum of six credits. 1-3 credit(s)

# Division of Health Sciences

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## ***Purpose and Focus***

The Division of Health Sciences was established to provide academic programs leading to professional specialization within the health care industry. Successful completion of the student's chosen academic program will provide the graduate with the knowledge and skills necessary to compete in the health care industry in a variety of settings. Curricular offerings within the division provide the student with a foundation in the liberal arts and sciences. Each health science discipline emphasizes the development of professional competence through course work that stresses the theoretical as well as the clinical aspects of the chosen field. Each of the curricular offerings within the division provides students the opportunity to practice their chosen discipline in a wide variety of clinical agencies in the Las Vegas community. The dynamic growing health care industry in Southern Nevada is receptive to the students and to UNLV graduates.

## ***Accreditation***

Accreditation Board for Engineering and Technology  
Commission on Collegiate Nursing Education (CCNE)  
Northwest Commission on Colleges and Universities  
Joint Review Committee on Educational Programs in Nuclear Medicine Technology  
Commission for the Accreditation of Athletic Education  
The Accreditation Council for Education in Nutrition and Dietetics (ACEND)  
Council on Accreditation of Allied Health Education Programs  
Joint Review Committee on Education in Radiologic Technology  
Commission on Accreditation of Medical Physics Educational Programs

## ***School of Allied Health Sciences***

Department of Health Physics and Diagnostic Sciences  
Comprehensive Medical Imaging — Bachelor of Science  
Health Physics — Bachelor of Science  
Nuclear Medicine — Bachelor of Science  
Radiography — Bachelor of Science  
Department of Kinesiology and Nutrition Sciences  
Athletic Training — Bachelor of Science  
Kinesiological Sciences — Bachelor of Science  
Nutrition Sciences — Bachelor of Science  
Didactic Program in Dietetics  
Dietetic Internship (Post Baccalaureate Supervised Practice)

## ***School of Nursing***

Nursing — Bachelor of Science

## ***School of Community Health Sciences***

Health Care Administration — Bachelor of Science  
Public Health — Bachelor of Science

## ***Graduate Degree Programs***

Doctor of Dental Medicine  
Doctor of Radiochemistry  
Master of Science in Exercise Physiology  
Master of Science in Health Physics

Master of Science in Kinesiology  
Master of Science in Nursing  
Master of Education in Health Promotion  
Master of Public Health  
Master of Health Care Administration  
Ph.D. in Public Health  
Ph.D. in Nursing  
Doctor of Physical Therapy  
Doctor of Nursing Practice

## ***Minors***

Health Physics  
Kinesiology  
Public Health: two minors  
Public Health  
Sustainability and Health

## ***Advisement***

All undergraduate academic advising is done through the Division of Health Sciences Advising Center in Classroom Education Building (CEB 399). Program requirements are available in the Division of Health Sciences Advising Center. It is the student's responsibility to maintain contact with advisors as changes in departmental policies and programs may occur. Phone: 702-895-5448.

## ***Health Sciences***

### ***HSC 100 - Inquiry and Issues in Health Sciences***

Formerly Listed as CLS 100.

This First Year Experience course examines scientific research methods, ethics and communication in the Health Sciences. Disciplines within health science are explored. Global and multicultural issues are identified related to health care delivery, policy and research. Note(s): Fulfills the First Year Seminar requirement. 2 credit(s)

### ***HSC 210 - Milestone Discoveries in the Health Sciences***

Examination of seminal discoveries in the health sciences. Focus will be on those discoveries that saved lives and/or reduced suffering by changing the way medicine was practiced or public health was improved. Selected topics will be examined in terms of the foundation laid by the discovery, the challenge to the existing paradigm, and the importance to today's health care field. Prerequisite(s): ENG 101, ENG 102 or First Year Seminar course. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

### ***HSC 310 - Patient Education in the Health Sciences***

Techniques to improve healthful behavior of patients via education. Theories and principles of learning, assessment of patient's needs, and processes of implementation and evaluation of appropriate teaching/learning strategies. 3 credit(s)

### ***HSC 320 - Patient-Provider Relationships in the Health Sciences***

Examination of health care-related issues and concepts with emphasis on communication between patient and practitioner. Prerequisite(s): ENG 101 and 102. 3 credit(s)

### ***HSC 400 - Research Methodologies in the Health Sciences***

Examination of the issues involved in planning, conducting, and evaluating research. Emphasis on qualitative and quantitative research methodologies appropriate to the allied health professions. Prerequisite(s): KIN 300. 3 credit(s)

### **HSC 405 - Ethical Issues in Health Care**

Study of the philosophical basis of ethics and ethical decision-making practices in contemporary health care with an examination of the differences between “masculine” and “feminine” ethical decision-making patterns. Includes an analysis of current ethical issues such as abortion, right to die, euthanasia, organ transplants, and individual versus collective rights of persons. 3 credit(s)

### **HSC 410 - Management Principles in the Health Sciences**

Introduction of concepts that influence the role of the manager or administrator in a health care setting. Prerequisite(s): HSC 320. 3 credit(s)

### **HSC 420 - Information Technology for the Health Sciences**

Computer applications for the allied health professions. Overview of issues and trends pertaining to the implementation of computer-based innovations in the clinical or practice setting. Emphasis on communications, information management, and information retrieval. Prerequisite(s): CS 115. 3 credit(s)

### **HSC 490 - Professional Paper in the Health Sciences**

Discussion of the components of a professional paper, conducting in-depth literature review, and writing a professional paper. Prerequisite(s): Senior standing in B.S. in Health Sciences program. 3 credit(s)

### **HSC 492 - Holistic Health Care: The Art and Science of Caring and Healing**

Examines and evaluates scientific evidence of holistic modalities that can be implemented into health care practices of daily life. Emphasizes the meaning of a holistic perspective for practice implications and daily life. Prerequisite(s): PSY 101. 3 credit(s)

### **HSC 499 - Special Topics in Health Sciences**

Specialized instruction in special topics in health sciences designed to develop understanding of current health sciences issues. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-6 credit(s)

### **HSC 702 - Translational Research Design**

Clinical and translational research concepts and design elements in the context of interdisciplinary health care with an emphasis on contemporary issues and best practice approaches. 3 credit(s)

## **School of Allied Health Sciences**

### ***Purpose and Focus***

The School of Allied Health Sciences provides undergraduate and graduate education to students in the health sciences. The curricula are designed to prepare students for entry-level health-related positions and further graduate or professional studies. Educational experiences include rigorous classroom instruction, laboratory/clinical practice, research, and mentoring. It is a goal of the School of Allied Health Sciences faculty to produce graduates who are professionally competent, capable of critical thinking, and highly sought after by employers. Graduates will exhibit high ethical professional standards; be devoted to lifelong learning; and be prepared to respond to local, regional, or national level demands in their fields of study.

### ***Departments, Majors, and Undergraduate Degrees***

Department of Health Physics and Diagnostic Sciences

Comprehensive Medical Imaging — Bachelor of Science

Health Physics — Bachelor of Science

Nuclear Medicine — Bachelor of Science

Radiography — Bachelor of Science

Department of Kinesiology and Nutrition Sciences

Athletic Training — Bachelor of Science

Kinesiology — Bachelor of Science

Nutrition Sciences — Bachelor of Science

Didactic Program in Dietetics

Dietetic Internship (Post Baccalaureate Supervised Practice)

### ***Minors***

Health Physics

Kinesiology

### ***Admission to the School***

Minimum GPA: 2.50

**Admission Policies:** Students failing to meet the entrance requirement GPA may appeal in writing to the School of Allied Health Sciences Academic Standards Committee for consideration of any extenuating circumstances affecting their admission.

Individual departments and programs within the school may have cumulative GPA requirements that are higher than those required for admission into the school. Students must satisfy department or program GPA requirements before being admitted to the major. Students failing to meet department GPA entrance requirements may appeal in writing to the department chair or program director for consideration of any extenuating circumstances affecting their admission.

Admission to some programs offered by the school is limited. Programs require fulfillment of selective admission criteria as contained in this catalog and in other appropriate School of Allied Health Sciences or program documents. Continuation in limited enrollment programs is contingent upon fulfillment of conditions specified by UNLV and contained in official school documents.



**Transfer Policies:** Transfer students are accepted provided they meet the stated requirements for admission. The school, through individual departments, is sensitive to the needs of students who hold associate degrees and/or certificates. Students interested in entering a baccalaureate degree program should contact the specific department offering the desired major. Articulation agreements with selected community college(s) may be obtained from the department offering the desired major.

**School Policies:** General university requirements for the baccalaureate degree include the completion of a minimum of 124 credits. Students earning a degree in any major within the School of Allied Health Sciences must complete all required courses for the designated major plus the Nevada System of Higher Education (NSHE) and UNLV general education core requirements. The student is referred to the individual departments for progression, probation, and suspension policies specific to their major of interest.

### ***Advisement***

All undergraduate academic advising is done through the Division of Health Sciences Advising Center in MPE 308. Program requirements are available in the Division of Health Sciences Advising Center. It is the student's responsibility to maintain contact with advisors as changes in departmental policies and programs may occur. Phone: 702-895-5448.

#### **PEX 101 - Backpacking and Camping**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 102 - Badminton**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 105 - Bowling**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 106 - Canoeing**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 107 - Golf**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 110 - Fitness Walking**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 111 - Jogging**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 113 - Tae Kwon Do (Beginning)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 113B - Tae Kwon Do (Intermediate)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 114 - Self Defense**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 115 - Aikido (Beginning)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 116A - Scuba Diving**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 119 - Shotokan Karate**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 120A - Swimming (Beginning)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 120B - Swimming (Intermediate)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 120D - Swim Instructor Training (WSI)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 120E - Lifeguard Training**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 122A - Tennis**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 122B - Tennis (Intermediate/Advanced)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 123 - Racquetball**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 126 - Desert Hiking and Survival Skills**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 128 - Low Back Care Through Gentle Yoga**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 129 - Circuit Training**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 130 - Step Aerobics**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 132 - Weight Training**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 134 - T'ai Chi Cu'uan**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 134B - Hatha Yoga**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

#### **PEX 135 - Martial Arts Cross Training**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 136X - Cardio-Kickboxing**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 137 - Ice Skating Skills (Beginning)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 138 - Ice Hockey Skills (Beginning)**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 143 - Rock Climbing**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 145 - Boot Camp**

Boot Camp is designed to develop and promote aerobic and anaerobic fitness through a military style workout regimen. The total-fitness workout will teach students motivation through intense cardiovascular training, calisthenics and upper and lower body workouts. Students will improve cardiovascular endurance, agility, muscular strength, and flexibility. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 147 - Soccer**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 148A - Volleyball**

An activity class may be repeated for credit up to four times and may be audited. May be repeated for a maximum of four credits. 1 credit(s)

**PEX 149 - Zumba**

Zumba is a Latin-inspired, fitness class that blends international music and movements with the Latin culture to create an exciting and energetic fitness modality. Students will learn the four basic Zumba movements, which include, but not limited to, Merengue, Salsa, Cumbia and Reggaeton. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 152 - Total Body Conditioning for Women**

This course is designed to teach women exercise methods that will help them improve their cardiovascular fitness, muscle strength and agility. The class will incorporate a variety of workout environments including weights, body weight exercises and other cardiovascular exercises including running. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 153 - Weight Training for Women**

Students taking this course will participate in exercise using dumbbells, selectorized equipment and free weight exercises. Other subjects that could be address are toning muscles, building muscles, program design, exercises for different muscle groups, flexibility, and proper nutrition. The class instruction will be specific to women. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 154 - Indoor Cycling**

Students taking this course will participate in exercise using a stationary bicycle. They will learn basic cycling techniques, and breathing and heart rate awareness. This exercise is aimed at improving cardiovascular health and burning calories. Student will also learn about the benefits of exercise and fitness. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 155 - Basketball**

This course will teach students the rudiments of passing, dribbling and shooting. Students will also learn offensive and defensive sets. Students will have the opportunity to develop these skills through in-class competition. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 156 - Body Weight Bootcamp**

This course is designed to demonstrate to students efficient ways to burn fat at high rates in short amounts of time through exercises that rely upon the body weight of the student. The workouts will be aimed at improving strength and endurance. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 157 - Dance Conditioning**

May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 160 - Latin Nightclub Dance**

This course is designed to introduce students to a variety of Latin Dance techniques such as Salsa, Rumba, Cha Cha Cha, Merengue and East Coast Swing. The class will help students to develop their rhythm, timing, movements and lead-follow connection. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 161 - Pilates**

To introduce students to a mind-body form of exercise that will help to increase body awareness and mindfulness, as well as build strength and flexibility through classic Pilates mat training. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 162 - Sports Officiating**

This course will teach the basic concepts of sports officiating. This course has been developed for students with the intent to pursue sports officiating at the High School level and will be taught using information from the National Federation of High Schools (NFHS) and National Association of Sports Officials (NASO). May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 163 - Triathlon Training**

This course will teach the necessary elements of training for a triathlon. The course will cover appropriate methods of training in long distance running, swimming and cycling. With the goal of developing a personal training triathlon program for each student, the class will prepare the student for a metric triathlon. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 165 - Outdoor Boot Camp**

Outdoor Boot Camp is a running biased program with accessory bodyweight movements to develop cardiovascular endurance and strength. Throughout the semester students will also utilize various types of equipment from resistance bands to tires or obstacle courses in the out of doors. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 169 - Back Country Camping and Travel**

This introductory back country and camping course is an experientially-based excursion focusing on the skills necessary to plan, prepare, and embark on short-stay overnight trips to wild lands where emergency medical care can be delayed. Safe travel, camping skills, equipment selection and operation, Leave No Trace principles will be taught. May be repeated up to a maximum of 6 credits. 2 credit(s)

**PEX 170 - Winter Camping and Travel**

This course will focus on how to successfully travel in winter terrain (Snowshoeing), while backpacking/camping in winter conditions. Students will learn about calorie needs during winter conditions, how to pack a pack, layering for conditions, how to stay warm, winter shelters, basic map and compass, and making a winter camp. May be repeated up to a maximum of 6 credits. 2 credit(s)

**PEX 171 - Boxing Aerobic Conditioning**

This course will focus on techniques utilized by boxing professionals to achieve a high level of aerobic conditioning. Students will participate in and learn a variety of techniques that develop cardiovascular endurance, agility, power, speed, timing and footwork. May be repeated up to a maximum of 3 credits. 1 credit(s)

**PEX 175A - CrossFit Beginning**

CrossFit is a strength and conditioning program based on the combination of weightlifting, cardiovascular endurance, and gymnastics. It is defined as constantly varied, high-intensity, functional movements. Crossfit Beginning will provide students with the basic development needed to continue in a more advanced CrossFit class. May be repeated to a maximum of three credits. 1 credit(s)

### **PEX 175B - CrossFit Intermediate**

In CrossFit Intermediate, students will work on strength and conditioning with weightlifting, sprinting, gymnastics, powerlifting, kettlebell training, and medicine ball training. This course is intended to improve cardiovascular fitness, stamina, strength, flexibility, power, speed, agility, balance, coordination, and accuracy. May be repeated to a maximum of three credits. 1 credit(s)

### **PEX 177 - Canoeing the Black Canyon**

Introductory canoeing course that's experientially based focusing on basic skills necessary to safely plan, prepare for, and embark on overnight trips where emergency medical care can be delayed. Safe travel, water safety, paddling basics, camping skills, equipment selection and operation, and sound decision-making are all foundational skills learned in this course. May be repeated to a maximum of four credits. 2 credit(s)

### **PEX 178 - Kali Martial Arts**

A martial art that originated in the Philippines. Kali develops reaction and timing training, through Kali stick coordination drills, developing your martial skill to a higher level. This course will also provide cardiovascular and agility training. 1 credit(s)

### **PEX 182 - Obstacle Course Training (Beginner)**

This class will develop student's skills to compete in obstacle course races and general physical awareness. Obstacle Course Training offers a progressive format to help you learn how to safely move up, over, around or through obstacles while focusing on cardiovascular and strength training. May be repeated to a maximum of three credits. 1 credit(s)

### **PEX 189 - Dancesport (Beginner)**

Dancesport (Beginner) will introduce the student to the competitive side of Ballroom Dance. It will give them instruction in the Basic, or Bronze Level, patterns in the following dances: Waltz, Fox Trot, Tango, Cha Cha, Rumba, East Coast Swing, Mambo. It will also provide instruction in proper competitive technique. May be repeated to a maximum of three credits. 1 credit(s)

### **PEX 195 - Specific Topics in Physical Education**

Introduction to a variety of individual and team sports, fitness, and recreational activities. Emphasis on PE and sports skill knowledge and time devoted to skill practice. Specific sports, fitness, and recreational activities are designated in parentheses by section number to specify each course section's content. May be repeated to a maximum of 12 credits. 1 credit(s)

### **PEX 201 - Fundamentals of Coaching**

This course provides students a foundational understanding of athlete-centered coaching. The class will focus on building a coaching philosophy, administrative duties, teaching strategies, motivational techniques, and organizational skills needed to be an effective coach. Upon completion of course students will meet NFHS level 1 coaching education requirements. 3 credit(s)

## **Department of Health Physics and Diagnostic Sciences**

### ***Purpose and Focus***

The Department of Health Physics and Diagnostic Sciences educates students in the applied, interdisciplinary sciences of radiation protection and medical imaging. All degree programs in the department have a strong foundation in mathematics and the physical and life sciences. Graduates of the programs are prepared for entry-level employment as radiation safety, clinical laboratory, or medical imaging professionals. Graduates also meet many of the prerequisites for advanced graduate or professional studies.

### ***Accreditation***

Accreditation Board for Engineering and Technology (ABET)  
Commission on Accreditation of Medical Physics Educational Programs  
Commission on Accreditation of Medical Physics Educational Programs  
Joint Review Committee on Educational Programs in Nuclear Medicine Technology  
Joint Review Committee on Education in Radiologic Technology  
Northwest Commission on Colleges and Universities

### ***Undergraduate Majors***

Comprehensive Medical Imaging  
Health Physics  
Nuclear Medicine  
Radiologic Sciences

### ***Certification and Licensure Programs***

Graduates of the B.S. in Nuclear Medicine are eligible to write both the ARRT (American Registry of Radiological Technologists) and NMTCB (Nuclear Medicine Technologists Certification Board) national registries in nuclear medicine. Graduates of the B.S. in Comprehensive Medical Imaging are eligible to take the ARRT (American Registry of Radiological Technologists) national registry in magnetic resonance imaging, provided they are certified in radiography or nuclear medicine. Graduates may take the national registry in computed tomography only if they are certified in radiography.

### ***Admission to the Major***

Minimum GPA: 3.00 entering freshmen; 2.75 transfer and UNLV students with a minimum of 30 credits

**Admission Policies:** Admission to the university does not guarantee admission to academic programs within the health physics department.

Students must fulfill the following admission requirements: a cumulative high school GPA of 3.00 or above or a cumulative GPA of 2.75 or above in 30 credits taken at UNLV or accepted in transfer by the university. Normally, the last 30 credits establish the GPA.

Applicants not meeting these requirements may be admitted on a probationary status. Students admitted on probation must complete 30 credits in the specified program and/or university- required courses at UNLV, with a cumulative GPA of 2.50 or above in order to remain in the program. Previous course work will be evaluated for adequacy.



Students in the B.S. in Comprehensive Medical Imaging must have also successfully completed a nationally accredited radiography program of study prior to admission into the CT/MRI track of the program. Students not meeting this admission requirement may be admitted into the degree program on a case-by-case basis with approval from the department chair.

Applicants for the B.S. in Nuclear Medicine program must fulfill the following admission requirements: a cumulative high school GPA of at least 3.00 or a cumulative GPA of 2.75 or higher in 60 credits taken at UNLV or accepted in transfer by the university and submission of a program application by noon on the last Friday in February for possible entrance the following fall. Completion of the above does not guarantee acceptance to the program as admission is limited.

**Transfer Policies:** Transfer students need a cumulative GPA of 2.75 or above in credits accepted for transfer by the university for admission into the CMI, HPS or NUC programs. Previous course work will be evaluated for adequacy.

Students in the B.S. in Comprehensive Medical Imaging must have also successfully completed a nationally accredited radiography program of study prior to admission into the CT/MRI track of the program.

#### **Department Policies: Progression Requirements**

Students must:

1. Maintain a cumulative GPA of 2.50 or higher each semester enrolled and have no negative grade point averages,
2. Receive a grade of C or better in all required RAD, HPS, CMI, or NUC courses,
3. Not register for the same RAD, HPS, CMI, or NUC course more than two times (except HPS 411, CMI 490, RAD 490, and CMI 485).
4. Students who have successfully completed a nationally accredited radiography program prior to their admission to the CT/MRI track of Comprehensive Medical Imaging degree program must pass a national registry in radiography prior to graduation.
5. Student progression into RAD, CMI, and NUC clinical course work may be limited based upon the availability of clinical sites.
6. Additional policies for each program are published in the appropriate program policy manual.
7. All students accepted to a clinical program must be able to pass a national background check and a drug screening test.

#### **Advisement**

Each student is assigned an academic advisor from the Department of Health Physics and Diagnostic Sciences faculty. It is the responsibility of the student to contact the advisor periodically, at least once each semester. The advisor will assist and advise the student in course selection and progression in program advancement.

#### **Comprehensive Medical Imaging Major - Bachelor of Science (BS)**

Please see the UNLV School of Allied Health Sciences, Health Physics and Diagnostic Science department web page at [www.healthphysics.unlv.edu](http://www.healthphysics.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Division of Health Sciences Academic Advising Center at [www.alliedhealth.unlv.edu/advising](http://www.alliedhealth.unlv.edu/advising).

#### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

#### **Learning Objectives**

1. Apply theoretical and practical diagnostic medical imaging concepts in the workplace.
2. Support their aspirations for obtaining professional certifications.
3. Demonstrate the utilization of mathematical and scientific concepts within the specialized knowledge base of the discipline.
4. Demonstrate an understanding of the research process and its relationship to current and future diagnostic medical imaging activities.
5. Continue to acquire knowledge and experiences required to assume leadership roles in the diagnostic medical imaging profession.
6. Function collaboratively with members of other health care disciplines.
7. Become involved with national and local medical imaging-related professional societies.
8. Have a solid academic foundation to allow entry into graduate programs.
9. Conduct themselves in an ethical and professional manner.

#### **University Graduation Requirements**

- Please see Graduation Policies for complete information
- Comprehensive Medical Degree Requirements .... Total: 120 Credits
- Comprehensive medical imaging employs advanced imaging modalities to make diagnostic evaluations of the body. The CMI program at UNLV is an innovative academic program designed to educate students in a foundation of mathematics and the sciences applicable to the interdisciplinary and applied science of diagnostic medical imaging. The program offers theoretical and clinical course work in the advanced-level modalities of magnetic resonance imaging, ultrasound, and computed tomography. Graduates of the program help meet the demand for professional personnel to perform patient imaging procedures on state-of-the-art advanced imaging systems, process and enhance computer images, prepare and administer contrast agents, maintain strict quality control guidelines, and conduct research in the comprehensive medical imaging area
- General Education Requirements - Subtotal: 38-39 Credits
- First-Year Seminar ..... Credits: 2-3
- English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3
- Constitutions ..... Credits: 4
- Mathematics ..... Credits: 5
- MATH 128 - Precalculus and Trigonometry
- Distribution Requirements ..... Credits: 18
- Please see Distribution Requirement for more information.
- Humanities and Fine Arts: 9 Credits
    - Two courses 3 credits each from two different humanities areas - 6 credits
    - One course in fine arts- 3 credits
  - Social Science: 9 Credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking:
    - Automatically satisfied by Major requirements
- Multicultural and International  
Multicultural, one 3 credit course required



International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

Major Requirements- BS in Comprehensive

Medical Imaging..... Subtotal 62-79 Credits  
Sciences ..... Credits: 24

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- CHEM 110 - Chemistry for the Health Sciences I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Comprehensive Medical Imaging Core..... Credits: 26-35

- RAD 100 - Introduction to Medical Imaging
- RAD 117 - Patient Care in Medical Imaging and Radiation Therapy
- HPS 102 - Radiation Science
- HPS 420 - Radiation Biology
- CMI 376 - Sectional Anatomy in Medical Imaging
- CMI 490 - Comprehensive Medical Imaging Clinical Education

(see note 1 below)

- CMI 485 - Imaging Case Reviews (twice)

Advanced Modality Studies..... Credits: 12-20

Students select one of the following tracks

CT/MRI Track:

- CMI 330 - Introduction to Magnetic Resonance Imaging
- CMI 332 - Magnetic Resonance Imaging Pathology
- CMI 360 - Principles of Computed Tomography
- CMI 361 - Computed Tomography Pathology

or

Ultrasound Track:

- CMI 350 - Ultrasound Physics and Instrumentation
- CMI 351 - Abdominal Ultrasound
- CMI 352 - Obstetric Ultrasound
- CMI 353 - Gynecologic Ultrasound
- CMI 354 - Vascular Ultrasound
- CMI 355 - Ultrasound Practicum

or

Radiography Track:

- RAD 330 - Radiography Clinical Education I
- RAD 331 - Radiography Clinical Education II
- RAD 332 - Radiography Clinical Education III
- RAD 333 - Radiography Clinical Education IV
- RAD 334 - Radiography Clinical Education V
- RAD 350 - Physics of X-Ray Production
- RAD 351 - Physics of X-Ray Production Laboratory
- RAD 354 - Radiographic Quality Assurance and Techniques
- RAD 370 - Radiographic Procedures I
- RAD 371 - Radiographic Procedures Skill Laboratory I
- RAD 372 - Radiographic Procedures II
- RAD 373 - Radiographic Procedures Skills Laboratory II
- RAD 474 - Radiographic and Special Imaging Pathology
- RAD 484 - Principles of Digital Imaging
- RAD 486\* - Ethics and Medical Law in Radiology

Electives..... Credits: 5-21

Must be approved by the student's advisor

Up to 5 credits of lower-division RAD courses may be used as electives in the ultrasound track.

CT/MRI and Ultrasound Tracks may use up to 20 credits upper division RAD courses may be used as electives (note: they are required in the RAD Track).

Up to six additional credits of CMI 490 (beyond the required nine) may be used for electives in the CT/MRI track.

Total Credits: ..... 120

### Note

1. Students in the Ultrasound track may take CMI 490 four times for a total of 12 credits.

### Health Physics Major - Bachelor of Science (BS)

Please see the UNLV School of Allied Health Sciences, Department of Health Physics and Diagnostic Sciences, web page at <http://healthphysics.unlv.edu/health-physics.html> for information about department programs, faculty and facilities.

Please see advising information at the UNLV School of Allied Health Sciences Advising at [alliedhealth.unlv.edu/advising.htm](http://alliedhealth.unlv.edu/advising.htm)

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. Knowledge of the basic health physics sciences.
2. Knowledge of the theoretical aspects of health physics.
3. Familiarity with the practical applications of health physics.
4. Competency in health physics problem solving.
5. Competency in communicating technical information in written and oral form.
6. Knowledge of basic principles of radiation science and safety.
7. Knowledge of the chemical and biological effects of radiation.
8. Obtain a strong foundation in math and the basic sciences.
9. Familiarity with basic computer programming skills
10. Familiarity with statistics of relevance to the field of health physics.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Health Physics Requirements..... Total: 120 Credits  
Health Physics is the profession devoted to protection of the individual, population, and environment from the potentially harmful effect of ionizing and nonionizing radiation. The Health Physics program at UNLV is designed to train students for entry-level positions in health physics. Graduates also meet many of the prerequisites required for postgraduate studies in areas such as health physics, radiation therapy, pharmacy or medicine. The specific program objectives are that, upon graduation, the graduate should:

1. Apply theoretical and practical health physics in the workplace.
2. Demonstrate an understanding of the research process and its relationship to current and future health physics activities.
3. Continue to acquire knowledge and experiences requisite to assuming a leadership role in the health physics profession.
4. Function collaboratively with members of the health physics community and representatives from related health and safety professions.
5. Have a solid academic foundation for graduate study.
6. Conduct themselves in an ethical and professional manner.

General Education Requirements..... Subtotal: 37-38 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Total Credits: 4

- MATH 181 - Calculus I

Distribution Requirement Life and Physical Sciences and Analytical Thinking

Please see Distribution Requirements for more information.

- Humanities and Fine Arts Credits: 9
  - Two courses from two different areas - 6 credits
  - One course in Fine Arts - 3 credits
- Social Science Credits: 9
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Health Physics ..... Subtotal: 67 Credits

Mathematics ..... Credits: 4

- MATH 182 - Calculus II

Biology ..... Credits: 12

- BIOL 196 - Principles of Modern Biology I
- BIOL 223 - Human Anatomy and Physiology I

and

- BIOL 224 - Human Anatomy and Physiology II

Chemistry ..... Credits: 8

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II

Physics ..... Credits: 12

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Health Physics ..... Credits: 26

- HPS 300 - Physics of Ionizing Radiation
- HPS 301 - Principles of Health Physics
- HPS 402 - Radiation Detection
- HPS 403 - Radiation Physics and Instrumentation Laboratory
- HPS 411 - Health Physics Seminar (see note 1 below)
- HPS 416 - Advanced Health Physics
- HPS 420 - Radiation Biology
- HPS 470 - Environmental Health Physics

and

- HPS 495 - Health Physics Research

Science, Math or Engineering Electives ..... Credits: 21

- STAT 491 - Statistics for Scientists I
- CS 117 - Programming for Scientists and Engineers

Additional Electives (must be approved by the student's advisor)

Total Credits: ..... 120

Major Requirements - BS in Health Physics - Preprofessional Concentration ..... Subtotal: 83 Credits

Mathematics ..... Credits: 4

- MATH 182 - Calculus II

Biology ..... Credits: 16

- BIOL 196 - Principles of Modern Biology I
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

and

- BIOL 251 - General Microbiology

Chemistry ..... Credits: 16

- CHEM 121A - General Chemistry I
- CHEM 122A - General Chemistry II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II

Physics ..... Credits: 12

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Health Physics ..... Credits: 26

- HPS 300 - Physics of Ionizing Radiation
- HPS 301 - Principles of Health Physics
- HPS 402 - Radiation Detection
- HPS 403 - Radiation Physics and Instrumentation Laboratory
- HPS 411 - Health Physics Seminar (must be taken for four semesters)
- HPS 416 - Advanced Health Physics
- HPS 420 - Radiation Biology
- HPS 470 - Environmental Health Physics

and

- HPS 495 - Health Physics Research (1 credit)

Science, Math or Engineering Electives ..... Credits: 9

- STAT 491 - Statistics for Scientists I
- CS 117 - Programming for Scientists and Engineers
- CHEM 474 - Biochemistry I

Total Credits: ..... 120

## Notes

1. HPS 411, must be taken for four semesters.
2. Every student must complete a three-credit multicultural course and a three-credit international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.

## Nuclear Medicine Major - Bachelor of Science (BS)

Please see the Nuclear Medicine web page at [healthphysics.unlv.edu/nuclear-medicine.html](http://healthphysics.unlv.edu/nuclear-medicine.html) for information about department programs, faculty and facilities.

Please see advising information at the Public Health Undergraduate Advising at [alliedhealth.unlv.edu/advising.htm](http://alliedhealth.unlv.edu/advising.htm).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
www.nwccu.org  
Program - The Joint Review Committee on Educational Programs in  
Nuclear Medicine Technology jrcnmt.org/

## Learning Outcomes

Nuclear medicine is the medical specialty that utilizes radioactive materials to make diagnostic evaluations of the anatomic and/or physiologic conditions of the body and provides therapy with unsealed radioactive sources. The nuclear medicine program at UNLV is designed to train students for entry-level positions in nuclear medicine. Additionally, graduates will meet many of the prerequisites required for post-graduate studies in health related areas. The specific program objectives are, that upon graduation, the graduate should:

1. Apply theoretical and practical applications of nuclear medicine in the workplace.
2. Find gainful employment locally, or regionally, as a staff or chief technologist.
3. Continue to acquire knowledge and experiences requisite to assuming a leadership role in the field of nuclear medicine.
4. Have learned many diverse aspects of nuclear medicine from routine to experimental through a wide range of clinical experiences.
5. Successfully write a national registry examination in nuclear medicine.
6. Have a sound academic foundation for graduate study.
7. Conduct themselves in an ethical and professional manner.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Nuclear Medicine Degree Requirements ..... Total: 120 Credits  
General Education Requirements ..... Subtotal: 38-39 Credits  
First-Year Seminar ..... Credits: 2-3  
English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 4  
Mathematics ..... Credits: 5

- MATH 128 - Precalculus and Trigonometry

Distribution Requirement ..... Credits: 18  
Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two courses 3 credits each from two different humanities areas – 6 credits
  - One course in fine arts – 3 credits.
- Social Sciences: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International  
Multicultural, one 3 credit course required  
International, one 3 credit course required  
These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

## Major Requirements -

BS in Nuclear Medicine ..... Subtotal: 79-81 Credits  
Computer Science ..... Credits: 3  
Statistics ..... Credits: 3  
Sciences ..... Credits: 24

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- PHYS 151 - General Physics I

Nuclear Medicine Science Core ..... Credits: 49-51

- NUC 300 - Introduction to Nuclear Medicine Imaging or RAD 100 - Introduction to Medical Imaging
- RAD 117 - Patient Care in Medical Imaging and Radiation Therapy
- HPS 102 - Radiation Science or RAD 102 - Radiation Science
- HPS 420 - Radiation Biology
- CMI 376 - Sectional Anatomy in Medical Imaging
- CMI 479 - Advanced Topics and Management
- CMI 490 - Comprehensive Medical Imaging Clinical Education (see not 2 below)
- NUC 315 - Nuclear Medicine Instrumentation
- NUC 320 - Radiopharmaceuticals
- NUC 350 - Nuclear Medicine Procedures I
- NUC 360 - Nuclear Medicine Procedures Laboratory
- NUC 387 - Nuclear Cardiology and EGG Interpretation
- NUC 450 - Nuclear Medicine Procedures II
- NUC 480 - Positron Emission Computerized Tomography (PET)
- NUC 494 - Advanced Practice in Nuclear Medicine

Electives ..... Credits: 0-3  
Must be approved by student's advisor.  
Total Credits ..... 120

## Note

1. CMI 490 is to be taken three times for a total of 9 credits.

## Minor

### Health Physics Minor

Courses Include ..... Total Credits: 21

- HPS 300 - Physics of Ionizing Radiation
- HPS 301 - Principles of Health Physics
- HPS 402 - Radiation Detection
- HPS 403 - Radiation Physics and Instrumentation Laboratory and nine additional HPS credits. Up to three credits of HPS 411 may be used.

## Certificate

### Radiography Certificate

#### Program Requirements

English Composition/Literature ..... Total Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Mathematics ..... Total Credits: 3

- MATH 124 - College Algebra

or

- MATH 126 - Precalculus I

Computer Science ..... Total Credits: 3  
CS 115 or equivalent

Sciences ..... Total Credits: 12

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

Radiography Courses ..... Total Credits: 49

- RAD 100 - Introduction to Medical Imaging
- RAD 102 - Radiation Science
- RAD 117 - Patient Care in Medical Imaging and Radiation Therapy
- RAD 330 - Radiography Clinical Education I
- RAD 350 - Physics of X-Ray Production
- RAD 351 - Physics of X-Ray Production Laboratory
- RAD 370 - Radiographic Procedures I
- RAD 371 - Radiographic Procedures Skill Laboratory I
- RAD 372 - Radiographic Procedures II
- RAD 373 - Radiographic Procedures Skills Laboratory II
- RAD 331 - Radiography Clinical Education II
- RAD 332 - Radiography Clinical Education III
- RAD 333 - Radiography Clinical Education IV
- RAD 334 - Radiography Clinical Education V
- RAD 354 - Radiographic Quality Assurance and Techniques
- RAD 474 - Radiographic and Special Imaging Pathology

Total Credits: ..... 73

## ***Clinical Laboratory Sciences***

### **CLS 350 - Urinalysis and Body Fluid Analysis**

Study of renal physiology and pathologies manifested in body fluids, such as urine, CSF and synovial fluid. Case studies demonstrate clinical significance of body fluid analysis in the diagnosis of disease. Prerequisites CHEM 220, BIOL 208 or BIOL 300. 1-2 credit(s)

### **CLS 351 - Urinalysis and Body Fluid Analysis Laboratory**

Analysis of constituents of urine and other body fluids with emphasis on chemical, macroscopic, and microscopic methodologies used in the diagnosis of disease. Corequisite(s): CLS 350. 1 credit(s)

### **CLS 352 - Introduction to Clinical Laboratory Science and Safety**

Introduction to the role of clinical laboratory scientist in health care delivery systems. Laboratory safety issues with emphasis on the practice of CDC universal precaution guidelines. Application of basic educational methods for laboratory personnel. Prerequisite(s): Admission to the CLS program. 1 credit(s)

### **CLS 353 - Laboratory Operations I**

Examination and correlation of laboratory data through multi-disciplinary case study approach to patient care. Includes issues of patient confidentiality, professional ethics, and fundamental laboratory calculations. Prerequisite(s): CLS 352. 1 credit(s)

### **CLS 399 - Independent Study I**

Individualized clinical instruction in any area of clinical laboratory sciences after completing CLS 300-level courses. Prerequisite(s): Junior status in the CLS major. Consent of instructor and program director. May be repeated to a maximum of eight credits. 1-4 credit(s)

### **CLS 402 - Principles of Laboratory Specimen Collection and Processing**

Specimen collection and processing for medical diagnoses including: hospital and laboratory organizational structures; safety; infection control; patient rights; professionalism; medical terminology; cardiovascular system; POCT, CLIA waived testing; glucose, coag, Hct, slide prep, UA, ESR, Troponin, Preg, and Occ Bld. Emphasis on patient care, interpretation and problem solving. Prerequisite(s): BIOL 196. Lab/Lecture/Studio Hours Includes laboratory. 2 credit(s)

### **CLS 403 - Specimen Collection Clinical Practicum**

Supervised clinical practicum experience to develop competencies in laboratory equipment, specimen collection, processing and direct testing. Including: blood (arterial, venipuncture, capillary), non-blood, timed, chain-of-custody samples; POCT and CLIA waived testing (glucose, Coag, Hct, slide prep, UA, ESR, Troponin, Pregs, Occ Bld). Emphasis on patient management and problem solving. Prerequisite(s): BIOL 196. Note(s): S/F grading only. 1 credit(s)

### **CLS 404 - Laboratory and Hospital Safety**

Laboratory and hospital safety issues with emphasis on practice of universal precaution guidelines and HIPPA regulations. Topics include: MSDS; chemical storage, handling, and labeling; fire safety; infection control and isolation techniques; spill containment; safety equipment and personal protective attire; OSHA requirements and CDC recommendations, patient rights and confidentiality. Prerequisite(s): BIOL 224, CHEM 220 or CHEM 241. 1 credit(s)

### **CLS 412 - Clinical Immunology**

Principles of immunology and the immune response as applied to states of health and disease, immune function and pathology. Topics include antibodies and other antigen receptors, antigens, cell-cell communications, major histocompatibility complex interactions, effector mechanisms, immune regulation, hypersensitivity reactions, immunoproliferative and immune deficiency disease, transplantation immunology, and cancer mechanisms. Prerequisite(s): BIOL 208 or BIOL 300, CHEM 474. Note(s): This course is crosslisted with CLS 612. Credit at the 600-level requires additional work. 3 credit(s)

### **CLS 413 - Clinical Immunology Laboratory**

Immunologic and molecular techniques used to analyze antigen-antibody reactions in the diagnosis of health or disease. Including liquid and gel precipitation; direct agglutination, and hemagglutination; secondary indicator systems (RIA, ELISA, FA); bacterial and viral serology, Western Blot, DNA, fingerprinting, PCR, nucleic acid probes, flow cytometry and cellular analyses. Corequisite(s): CLS 412. Note(s): This course is crosslisted with CLS 613. Credit at the 600-level requires additional work. 1 credit(s)

### **CLS 414 - Transfusion Medicine Immunohematology**

Transfusion medicine stresses practical and theoretical aspects of the immunology of tissue antigens and blood group systems. Including ABO discrepancies, transfusion and compatibility testing, adverse reactions to transfusion, hemolytic disease of the newborn, hemotherapy, apheresis, immunomodulation, stem cell transplantation, donor selection and preparation. Prerequisite(s): CHEM 474, CLS 412. Note(s): This course is crosslisted with CLS 614. Credit at the 600-level requires additional work. 3 credit(s)

### **CLS 415 - Transfusion Medicine Immunohematology Laboratory**

Simulated clinical immunohematology laboratory designed to expose the student to the clinical practice of a modern blood bank service. Applied experiences in basic and advanced clinical testing related to common blood group antigens and their associated antibodies, compatibility testing, alloantibody identification, adsorptions/elutions, transfusion reactions and pre/postnatal studies. Corequisite(s): CLS 414. Note(s): This course is crosslisted with CLS 615. Credit at the 600-level requires additional work. 1 credit(s)

## ***Comprehensive Medical Imaging***

### **CMI 330 - Introduction to Magnetic Resonance Imaging**

Utilization of magnetic resonance imaging (MRI) in the medical environment. Topics include the physics of MRI, patient care, and safety. Includes site visits. Prerequisite(s): PHYS 151 and RAD 100. 3 credit(s)

### **CMI 331 - Principles of Magnetic Resonance Imaging**

Principles of magnetic resonance imaging (MRI) and its application in medical diagnostic imaging. Emphasis on imaging procedures, data acquisition and processing, quality control/management, gating, MRA, and spectroscopy. Prerequisite(s): CMI 330. 3 credit(s)



**CMI 332 - Magnetic Resonance Imaging Pathology**

Study of magnetic resonance imaging pathology used with the majority of pulse sequences. Emphasis on the investigation of metastatic and benign tumors as well as structural anomalies. Prerequisite(s): CMI 331. 3 credit(s)

**CMI 350 - Ultrasound Physics and Instrumentation**

Principles of acoustical physics, Doppler ultrasound, and ultrasound instrumentation. Prerequisite(s): PHYS 151, PHYS 152. 4 credit(s)

**CMI 351 - Abdominal Ultrasound**

Recognition and identification of the sonographic appearance of normal anatomical structures, disease processes, pathology, and pathophysiology of the abdomen. Prerequisite(s): BIOL 223, BIOL 224. 4 credit(s)

**CMI 352 - Obstetric Ultrasound**

Recognition and identification of the sonographic appearance of normal maternal, embryonic, and fetal anatomical structures and obstetric disease processes, pathology, and pathophysiology. Prerequisite(s): BIOL 223, BIOL 224. 3 credit(s)

**CMI 353 - Gynecologic Ultrasound**

Recognition and identification of the sonographic appearance of normal anatomical structures of the female pelvis and gynecological disease processes, pathology, and pathophysiology. Prerequisite(s): BIOL 223, BIOL 224. 3 credit(s)

**CMI 354 - Vascular Ultrasound**

Recognition and identification of the sonographic appearance of normal appearance of normal anatomical structures, disease processes, pathology, pathophysiology and hemodynamics of the peripheral vascular system and carotid arteries. Prerequisite(s): BIOL 223, BIOL 224. 3 credit(s)

**CMI 355 - Ultrasound Practicum**

To recognize and utilize the functions of Ultrasound equipment and demonstrate knowledge of Ultrasound scanning protocols when performing scans on patients. Prerequisite(s): CMI 350. Note(s): S/F grading only. 3 credit(s)

**CMI 360 - Principles of Computed Tomography**

Study of physics, techniques, and procedures that produce radiographic images of human structures using computed tomography. Prerequisite(s): PHYS 151 and RAD 100. 3 credit(s)

**CMI 361 - Computed Tomography Pathology**

Trauma, body, and skeletal pathology as viewed by computed tomography (CT) investigated. New applications such as quantitative CT, spiral scanning, and CT angiography addressed. Prerequisite(s): CMI 360. 3 credit(s)

**CMI 376 - Sectional Anatomy in Medical Imaging**

Transverse, coronal, and sagittal anatomy of the head, neck, thorax, abdomen, pelvis, and extremities. Areas of discussion include: skeletal, muscular, circulatory, nervous, lymphatic, and visceral anatomic relationships. Prerequisite(s): BIOL 224. 3 credit(s)

**CMI 479 - Advanced Topics and Management**

Examination of recent trends, research, and technological advances in medical imaging and the health care environment. Various administrative aspects of a medical imaging facility. Explores the humanistic, ethical, legal, and professional considerations of medical care. Prerequisite(s): Formal admission to the CMI or NUC program, CMI 310. 3 credit(s)

**CMI 481 - Digital Data Management**

Processing and management of digital data obtained from medical diagnostic equipment. Topics include spacial imaging domains, k-space mapping and filling, Fourier transformation, maximum intensity projection, multiplanar and 3-D reconstruction, and quality assurance/management. Prerequisite(s): CMI 331 or CMI 360. 3 credit(s)

**CMI 485 - Imaging Case Reviews**

Comprehensive case review of diagnostic imaging studies from multiple modalities. Presentations focus on individual case histories, techniques, pathology, and review of current literature. Prerequisite(s): Consent of instructor. May be repeated to a maximum of two credits. 1 credit(s)

**CMI 490 - Comprehensive Medical Imaging Clinical Education**

Clinical applications of instrumentation, quality control, patient care, and performance of diagnostic imaging procedures. Prerequisite(s): Consent of department. May be repeated to a maximum of 15 credits. Note(s): S/F grading only. 3 credit(s)

## *Health Physics*

**HPS 102 - Radiation Science**

(Same as RAD 102 - Radiation Science.) Principles of radiation science and safety including interactions of radiation with matter, radiation quantities and protection standards, dosimetry, radioactive decay, and biological effects of radiation. Prerequisite(s): MATH 124. 3 credit(s)

**HPS 210 - Fundamentals of Radiation Protection Technology**

Radiation protection technology practices and regulations associated with DOE and NRC facilities. Topics include the types, sources and interactions of radiation, radiation surveys and inspections, emergency preparedness, biological effects of radiation, and radiation terminology and units. Calibration and use of radiation detectors and dosimeters also examined. Prerequisite(s): MATH 124. 2 credit(s)

**HPS 300 - Physics of Ionizing Radiation**

Atomic and nuclear structure, basic quantum theory, radioactivity and decay kinetics, charged-particle interactions, photon interactions, neutron interactions, and sources of ionizing radiation. Prerequisite(s): CHEM 121A and CHEM 121L, PHYS 181. 3 credit(s)

**HPS 301 - Principles of Health Physics**

Health physics as it pertains to medicine, industry, and the government. Topics include: radiation terms, quantities and units, radiation protection standards, radiation safety and protection, radiation biology, and regulations. Prerequisite(s): HPS 300. 3 credit(s)

**HPS 402 - Radiation Detection**

Provides a basic understanding of dosimetry and radiation detection. Energy loss through the interaction of radiation with matter. Differing types of spectroscopy, electronics, and instrumentation involved in radiation detection. Statistics, errors, and interpretation encountered in data collection. Prerequisite(s): HPS 300. Note(s): This course is crosslisted with HPS 602. Credit at the 600-level requires additional work. 3 credit(s)

**HPS 403 - Radiation Physics and Instrumentation Laboratory**

Laboratory experiments in basic radiation physics and detection. Includes operation and calibration of survey instruments and gas-filled counters. Theory and operation of alpha and gamma spectrometry equipment and liquid scintillation counters. Laboratories and discussions on counting statistics and basic electronics. Corequisite(s): HPS 402. Prerequisite(s): HPS 300. Note(s): This course is crosslisted with HPS 603. Credit at the 600-level requires additional work. 3 credit(s)

**HPS 411 - Health Physics Seminar**

Forum for students, faculty, and/or invited speakers to present research activities, current events, market issues, and new products in the area of health physics. May be repeated to a maximum of four credits. 1 credit(s)

**HPS 416 - Advanced Health Physics**

Solutions to problems pertaining to radiation safety in the environment, industry, medical facilities, and nuclear reactors. Topics include shielding, accelerators, radon, non-ionizing radiation, and radiation dose-effect. Prerequisite(s): HPS 301, 402 and 420. Note(s): This course is crosslisted with HPS 616. Credit at the 600-level requires additional work. 3 credit(s)

**HPS 420 - Radiation Biology**

Radiation biochemistry, radiation effects on cellular structure and function, organs and systems, organisms, and populations. Discussions include target theory, direct and indirect effects, cell survival kinetics, prompt effects including acute radiation syndrome, delayed effects, and dose-effect relationships. Prerequisite(s): BIOL 189 or BIOL 224, and RAD 102/HPS 102 or HPS 300. 3 credit(s)

### **HPS 470 - Environmental Health Physics**

Cosmic and terrestrial radiation sources. Emphasis on TENORM, radon and pathway modeling. Topics include environmental regulations, nuclear fuel cycle, nuclear weapons testing and accidents, geohydrology and geochemistry. Corequisite(s): HPS 301. Prerequisite(s): MATH 182. Note(s): This course is crosslisted with HPS 670. Credit at the 600-level requires additional work. 3 credit(s)

### **HPS 475 - Medical Health Physics**

Role and responsibility of the health physicist in the medical environment. Prepares the student to support medical procedures using radioactivity to ensure compliance with state and federal standards. Prerequisite(s): HPS 301. 3 credit(s)

### **HPS 491 - Health Physics Internship**

Students apply knowledge of the bio-physical sciences and health physics to practical situations through an internship with practicing local radiation safety officers. Settings could include public or proprietary organizations depending upon the interest of the individual student. Prerequisite(s): HPS 301. 3 credit(s)

### **HPS 495 - Health Physics Research**

Participation in a research project in radiation science selected by faculty and students to demonstrate research potential in the field. Project may be conducted at a radiation laboratory, clinic, hospital or at the university. Prerequisite(s): HPS 301. May be repeated to a maximum of six credits. 1-6 credit(s)

### **HPS 499 - Directed Study**

Directed study of selected health physics problems, including individual research, on related topics. Topic selected by student and approved by faculty. Prerequisite(s): Consent of instructor. 1-3 credit(s)

## ***Nuclear Medicine***

### **NUC 300 - Introduction to Nuclear Medicine Imaging**

Introduction to nuclear medicine imaging with an emphasis on medical terminology, ethics and related aspects of medical imaging, including computed tomography (CT). Prerequisite(s): HPS 102, RAD 117, BIOL 189, BIOL 223, BIOL 224, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, PHYS 151, MATH 128, must be fully accepted as a student in the Nuclear Medicine Program. 3 credit(s)

### **NUC 315 - Nuclear Medicine Instrumentation**

Principles and application of radiation detection equipment and instrumentation employed in nuclear medicine procedures. Theory and laboratory application of the quality control procedures specific to each instrument. Laboratory application of imaging parameters, patient positioning, views and venipuncture techniques. Prerequisite(s): RAD 100 and formal program admission. Lab/Lecture/Studio Hours includes three hours laboratory each week. 4 credit(s)

### **NUC 320 - Radiopharmaceuticals**

Production, distribution, dose preparation, and imaging of radioactive tracers in medicine. Rationale of radiopharmaceutical choice and practical implications of radionuclide characteristics. Laboratory procedures including: handling of radionuclides, use of common equipment, radiopharmaceutical preparation, and aseptic technique. Prerequisite(s): NUC 315 and NUC 350. Lab/Lecture/Studio Hours includes three hours lecture and three hours laboratory each week. 4 credit(s)

### **NUC 350 - Nuclear Medicine Procedures I**

Preparation and performance of planar and SPECT nuclear medicine imaging procedures. Incorporation of all information necessary to perform liver, spleen, hepatobiliary, gastric reflux, Meckel's diverticulum, gastrointestinal bleeds, lung and skeletal imaging and/or functional studies. Use and principles of automated processing and various film types. Prerequisite(s): RAD 100 and formal program acceptance. 3 credit(s)

### **NUC 360 - Nuclear Medicine Procedures Laboratory**

Application of routine Nuclear Medicine imaging procedures including acquisition, processing, display, and analysis of data. Verbal communication and patient positioning relative to gastrointestinal, pulmonary, and skeletal studies will be emphasized. Corequisite(s): NUC 350. 1 credit(s)

### **NUC 387 - Nuclear Cardiology and EGG Interpretation**

Theory and principles of nuclear medicine cardiac imaging. Includes comprehensive examination of cardiovascular terminology and pathology and computer analysis. EGG interpretation and comprehension of life-threatening and dangerous cardiac rhythms. Prerequisite(s): NUC 350. 3 credit(s)

### **NUC 450 - Nuclear Medicine Procedures II**

Survey of in vivo nuclear medicine procedures and pathology related to the endocrine, urogenital, central nervous system, tumor/inflammatory, and bone marrow imaging. Principles of sensitivity, specificity, accuracy, and predictive values of diagnostic testing. Prerequisite(s): NUC 350. 3 credit(s)

### **NUC 480 - Positron Emission Computerized Tomography (PET)**

Presents the principles of PET imaging, including: instrumentation, quality control, reimbursement, radiation safety, procedures and diagnostic assessment in the areas of oncology, neurology and cardiology. Exploration of future trends also discussed. Prerequisite(s): NUC 450. 3 credit(s)

### **NUC 494 - Advanced Practice in Nuclear Medicine**

Examination of Nuclear Medicine Laboratory accreditation processes and state and federal regulatory guides for the preparation of a radioactive materials' application. Advanced practical application of PET/CT, SPECT/CT, and PET/MRI imaging. Corequisite(s): NUC 480. 1-3 credit(s)

## ***Radiography***

### **RAD 100 - Introduction to Medical Imaging**

Medical imaging in radiography, ultrasound, CT, MRI, nuclear medicine and angiography. Emphasis on medical terminology, medical ethics, jurisprudence, professional organizations, radiation protection, and medical terminology. 3 credit(s)

### **RAD 102 - Radiation Science**

(Same as HPS 102.) Principles of radiation science and safety including interactions of radiation with matter, radiation quantities and protection standards, dosimetry, radioactive decay, and biological effects of radiation. Prerequisite(s): MATH 124. 3 credit(s)

### **RAD 117 - Patient Care in Medical Imaging and Radiation Therapy**

Patient care practices in medical imaging, including ethical, legal, professional and administrative issues. Demonstrates specific patient care techniques. 3 credit(s)

### **RAD 330 - Radiography Clinical Education I**

Formerly Listed as RAD 130.

Clinical practicum providing experience in patient care, film processing and management, legal and administrative responsibilities, and radiography of the thorax, and abdomen. Includes introduction to radiography of the skeleton. Prerequisite(s): RAD 100, RAD 117, RAD 350, RAD 370, RAD 371 as well as formal admission to the radiography program. Note(s): S/F grading only. 1-3 credit(s)

### **RAD 331 - Radiography Clinical Education II**

Formerly Listed as RAD 231.

Continued clinical practicum providing experience in radiography. Prerequisite(s): RAD 330, RAD 372, RAD 354. May be repeated to a maximum of six credits. Note(s): S/F grading only. 3 or 6 credit(s)

### **RAD 332 - Radiography Clinical Education III**

Formerly Listed as RAD 232.

Continued clinical practicum providing experience in radiography including fluoroscopy of the digestive tract. Prerequisite(s): RAD 331. Note(s): S/F grading only. 1-3 credit(s)

**RAD 333 - Radiography Clinical Education IV**

Formerly Listed as RAD 233.

Continued clinical practicum providing experience in radiography including the cervical spine. Prerequisite(s): RAD 332. Note(s): S/F grading only. 1-3 credit(s)

**RAD 334 - Radiography Clinical Education V**

Formerly Listed as RAD 234.

Continued clinical practicum providing experience in radiography including operating room imaging. Prerequisite(s): RAD 332. May be repeated to a maximum of six credits. 3-6 credit(s)

**RAD 350 - Physics of X-Ray Production**

Formerly Listed as RAD 150.

Study of x-ray machinery including the x-ray tube, transformers, rectifiers, and circuits. There is an emphasis on the theory of x-ray production including the factors which contribute to image resolution. Prerequisite(s): MATH 124. 3 credit(s)

**RAD 351 - Physics of X-Ray Production Laboratory**

Formerly Listed as RAD 151.

Three-hour laboratory course with experiments on magnetism, electromagnetism, x-ray circuitry, image resolution and processing factors. Corequisite(s): RAD 350. 1 credit(s)

**RAD 354 - Radiographic Quality Assurance and Techniques**

Formerly Listed as RAD 254.

Detailed study of the factors contributing to image quality. Explanation of the various quality assurance tests used for radiographic equipment to maintain consistency in image quality. Corequisite(s): RAD 350. 3 credit(s)

**RAD 370 - Radiographic Procedures I**

Formerly Listed as RAD 170.

Study of radiographic terminology related to body mechanics and positioning. Introduction to factors relating to image quality and radiation protection. Anatomical study of and radiographic positioning parameters of the appendicular skeleton, thoracic and abdominal viscera, as well as the digestive tract. Introduction to factors affecting film quality and radiation protection. Lectures include radiographic positioning and anatomy of the extremities including the shoulder and pelvic girdles and the thoracic viscera and digestive tract. Prerequisite(s): BIOL 189, BIOL 223, BIOL 224. Formal admission to the radiography program. 3 credit(s)

**RAD 371 - Radiographic Procedures Skill Laboratory I**

Formerly Listed as RAD 171.

Introduction to exposure factors relating to image quality through phantom radiography. Peer positioning of the appendicular skeleton, thoracic and abdominal viscera, as well as the digestive tract. Analysis of film critique and anatomy recognition. Prerequisite(s): Formal admission to the radiography program. Note(s): Must be taken concurrently with RAD 370. 1 credit(s)

**RAD 372 - Radiographic Procedures II**

Formerly Listed as RAD 172.

Study of iodinated contrast use and adverse effects. Anatomical study, radiographic positioning and procedures related to the urinary and biliary system. Anatomical study and radiographic positioning parameters related to the bony thorax, vertebral column, cranium, and facial bones. Introduction to advanced modalities including CT, MRI, Mammography, and Interventional Radiology. Prerequisite(s): RAD 100, RAD 117, RAD 350, RAD 370. 3 credit(s)

**RAD 373 - Radiographic Procedures Skills Laboratory II**

Formerly Listed as RAD 173.

Peer radiographic positioning of the urinary system, vertebral column, cranium, and facial bones. Practical application of C-arm operation. Analysis of film critique and anatomy recognition. Prerequisite(s): RAD 370 and RAD 371. Note(s): Must be taken concurrently with RAD 372. 1 credit(s)

**RAD 474 - Radiographic and Special Imaging Pathology**

Formerly Listed as RAD 274.

Recognition of radiographic and special imaging pathology such as those seen on CT and MRI with an emphasis on etiology. Pathology subjects include skeletal, neuro, thoracic and abdominal viscera. Multiple radiologist lectures augment the textbook study of various pathological situations. Prerequisite(s): RAD 332. 3 credit(s)

**RAD 483 - Principles of Advanced Imaging**

Introduction to some of the advanced modalities available in radiology. Modalities include CT, MRI, Interventional Radiology, and Radiation Therapy. Topics for each modality will include patient care, instrumentation, image processing, and application. Prerequisite(s): RAD 432, and CMI 376. Formal admission to the radiography program. 3 credit(s)

**RAD 484 - Principles of Digital Imaging**

Detailed study of the production of digital radiographic images. Includes demonstration of equipment and proper utilization with an emphasis on radiation protection. Prerequisite(s): RAD 432, and CMI 376. Formal admission to the radiography program. Lab/Lecture/Studio Hours Six hours practicum, one hour lecture. 3 credit(s)

**RAD 486\* - Ethics and Medical Law in Radiology**

Lectures and classroom discussion on laws associated with medical imaging. Topics include liability, HIPPA, and malpractice. In addition, discussions about various scenarios which can challenge the ethical code for radiographers and how these scenarios should be handled. Prerequisite(s): RAD 432 and formal admission to the radiography program. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 3 credit(s)

**RAD 490 - Independent Study in Radiography**

Independent study and/or research in radiography or a related area. 1-3 credit(s)



# Kinesiology and Nutrition Sciences

## ***Purpose and Focus***

The Bachelor of Science degrees offered by the Department of Kinesiology and Nutrition Sciences include courses of study in three major areas: Athletic Training, Kinesiology, and Nutrition Sciences. Students choosing to major in Athletic Training or Kinesiology pursue the study of human movement and performance in the context of both basic and applied science. They have the opportunity to explore the physiological, biomechanical, and social-psychological aspects of human movement and performance. Students majoring in Nutrition Sciences complete coursework in the areas of basic sciences, human nutrition, and clinical dietetics. Students majoring in Nutrition Sciences have the opportunity to earn the Registered Dietitian Credential. The degree programs are designed to integrate theory and practice to prepare the student for the application of the principles in public and private agencies as well as to prepare the student for advanced study in the field of Kinesiology and Nutrition Sciences.

## ***Undergraduate Majors***

Athletic Training  
Kinesiology  
Nutrition Sciences

## ***Graduation Requirements***

A minimum of 120 credit hours is required for graduation with 60 credits earned at a four-year institution. Students are required to complete all university core requirements for the baccalaureate degree. Graduates of baccalaureate degree programs from accredited colleges or universities who are seeking second baccalaureate degrees may need to fulfill some additional core education requirements.

## ***Advisement***

Newly admitted students are assigned by the Office of the Registrar & Admissions to the Division of Health Sciences Advising Center for advisement and counseling. Students should meet with their advisor each semester. The advisor will assist the student in course selection and program advancement. Students will be made aware of other student services provided on campus as the need arises.

## ***Department Policies***

### ***Progress Toward a Degree***

Full-time students are considered to be making progress towards a degree if they maintain a minimum enrollment of 12 credit hours in courses that apply toward their degree program. In addition, students must enroll in at least one required major course (KIN or SIM, or ATT, or NUTR prefix) each term in which they are enrolled until all of their major course requirements are completed. Failure to maintain minimum progress toward a degree may result in the student being placed on probation and may ultimately lead to suspension.

### ***Probationary Status***

Students admitted on probationary status will be required to complete and sign a mandatory two-semester advisement contract prior to registering for any classes. During these two semesters, probationary students will be required to complete a minimum of 12 credits in

their degree program as designated by the department. Credits earned in summer session may be applied toward the 12 credits. Probationary students must achieve at least a 2.50 GPA in each of the two semesters. A review of the student's academic work will be conducted at the end of the first semester. Failure to achieve the minimum GPA may result in suspension. Extensions, amendments, or appeals of mandatory advising contracts will be made on a case-by-case basis with the recommendation of the department chair and the approval of the school Academic Standards Committee. Athletic Training majors may be placed on probationary status for either academic or behavioral reasons and will need to complete the probationary program as outlined in the ATEP student manual each student receives upon official acceptance into the program.

Any student who does not have an overall UNLV GPA of 2.50 or higher at the end of a given semester will be placed on probation for the next semester. Any student whose UNLV GPA falls below 2.00 or who shows a negative grade point balance of -1.00 to -14.90 will be placed on both school and university probation. Failure to earn a GPA of 2.50 or higher in each of two successive semesters may lead to department suspension. The department will suspend a student in accordance with the university suspension policy if the UNLV grade point balance falls to -15.00 or below after the student has received a probation warning.

## ***Program Descriptions***

### ***Athletic Training***

The Bachelor of Science degree in Athletic Training is designed for students interested in the treatment and prevention of athletic injuries. Students majoring in Athletic Training will follow a curriculum accredited by the Commission on Accreditation of Athletic Training Education CAATE. The Athletic Training Education program (ATEP) at UNLV is a rigorous and intense program that places specific requirements and demands on the students enrolled in it. In addition to completing core courses in kinesiology and the university general education requirements, students will complete course work in basic and advanced athletic training, therapeutic exercise and modalities, evaluation and rehabilitation of upper and lower extremities, and other athletic training-related topics. Successful completion of the curriculum prepares and qualifies the student to take the certification examination offered by the Board of Certification (BOC). In addition to classroom preparation, clinical experience is required. Athletic training majors must complete the five semesters of clinical experience which could be either at UNLV or in a local high school. Each student is assigned to an approved clinical instructor (ACI) for a minimum of 200 hours per semester during the final four semesters of the program.

The successful student must be willing to make the personal sacrifice and commitment to spending many hours working on educational competencies over the five semesters they are in the program. Upper-division students are assigned to an approved clinical instructor at UNLV or at a local high school, and each is responsible for assisting a clinical instructor in the medical care of student athletes.

There are several areas of employment for the certified athletic trainer, including professional and collegiate sports programs, high school sports, sports medicine clinics, private and/or hospital physical therapy clinics, and corporate and industrial settings. The Athletic Training degree program is competitive, and students must maintain a 2.75 cumulative GPA to remain in the Athletic Training major. For further information, students are encouraged to consult [www.unlv.edu/athletics/training](http://www.unlv.edu/athletics/training). Students interested in applying



should contact Tedd Girouard the Athletic Training Program Director at [tedd.girouard@unlv.edu](mailto:tedd.girouard@unlv.edu), phone 702-895-2457.

The technical standards set forth by the ATEP establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level Athletic Trainer, as well as meet the expectations of the program's accrediting agency (CAATE). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the national BOC exam.

Candidates for selection to the Athletic Training Educational Program at UNLV must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts, and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
- Sufficient postural and neuromuscular control, sensory function and coordination to perform appropriate physical examinations using accepted techniques and to accurately, safely, and efficiently use equipment and materials during the assessment and treatment of patients.
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
- The ability to record the physical examination results and a treatment plan clearly and accurately.
- The capacity to maintain composure and continue to function well during periods of high stress.
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced. This includes reporting to campus on or about August 1 each year for orientation and to begin clinical experience (may include work during early mornings, late evenings, weekends and time outside of the academic calendar).
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.
- Effective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

### ***Admission to the Major***

Athletic Training: GPA 2.75

Students must maintain a 2.75 cumulative GPA during their five-semester program.

### ***Athletic Training Majors***

The application process for the Athletic Training Educational Program takes place only during the fall semester. The application process for admission into the program is competitive, and merely completing the application process does not guarantee admission into the program. A maximum number of students will be accepted each year. To be eligible for admission to the Athletic Training Education Program, students must:

- Have successfully completed or be currently enrolled in SIM 101, Introduction to Athletic Training (or equivalent) and Anatomy (i.e., BIOL 223, KIN 245, or equivalent). Each class must be completed with a passing grade to be admitted into the program.
- Have a UNLV cumulative GPA of 2.75 or higher.
- Attend the clinical orientation meeting during the third week of fall semester to obtain information regarding the clinical application process and to set up an observation schedule in the UNLV athletic training facility. The actual date, time, and location will be available from the program director the first week of fall semester. All application materials will be provided at the orientation meeting.
- Complete 25 hours of observation in the UNLV athletic training facilities during the five-week observation period.
- Have two recommendation forms completed. The UNLV athletic training faculty and staff may not complete these forms.
- Complete and turn in application and recommendation forms to the program director by the posted deadline.
- Pass the written entrance examination in November. A passing grade is 70 percent or higher.

An application committee consisting of three to five clinical faculty and staff will score applications and interviews. The top 20 students will be invited for an interview with the athletic training faculty and staff. Selection for interviews will be based on GPA, written exam scores, and an application score (determined from letters of recommendation, previous clinical experience, and essays included in the application). Each of the three components will be scored on a scale of 100, and the sum total will be used to rank candidates. The interview will be scored on a scale of 100 and will be added to the average score from the three criteria listed above. (This total score will be accepted into the Clinical Athletic Training Educational Program, which begins January of the following year. The remaining eight students will be alternates for the program). Students accepted into the program are required to declare Athletic Training as their major.

### ***Athletic Training Majors***

Transfer students must contact the Athletic Training Education Program Director prior to the beginning of the summer session to initiate a transfer into the program. Transfer students are accepted only during the summer session.

Students may transfer to UNLV in the spring, summer or fall. Being accepted by the university does NOT automatically guarantee acceptance into the ATEP. A transfer student must apply for entry into the Athletic Training Education Program. There are two distinct methods of application to the UNLV ATEP and a transfer student can choose either if they meet the minimum qualifications of the method chosen.

- Fall application (with the majority of students at UNLV)
- Spring / Summer application

### ***Fall Application***

The preferred method for students who want to transfer to UNLV and obtain a Bachelor of Science in Athletic Training degree would be to initiate the application process in the fall semester of the school year. The student must meet the prerequisites, which include:

1. completing the application, essays, and reference letters,
2. performing 25 hours of observation,
3. passing the entrance exam, and
4. completing an on campus interview,
5. completing the required coursework as outlined (SIM 101 and anatomy) and maintain an overall 2.75 grade point average.

The transfer student is eligible to complete the fall application process and if accepted, must start with the spring semester cohort. If the transfer student cannot document that they have been supervised by an ATC as an athletic training student for a minimum of 250 hours at the community college or university level prior to applying, they must follow the above outlined application procedure.

### **Spring/Summer Application**

The second method for the transfer student to enter the UNLV ATEP requires the documentation of a minimum of 250 contact hours directly supervised by an ATC at the community college, junior college, or university setting. If this requirement is met, the prospective transfer student must contact the Athletic Training Education Program Director to determine if there is room available in the cohort. By initiating the application process in the spring a student would be requesting a fall semester start in the UNLV ATEP. If there is space available in the UNLV ATEP, then the prospective transfer student must complete the following to be eligible for entry.

1. Apply for and be formally admitted to the University of Nevada, Las Vegas
  - Check the university deadlines for application and registration of classes.
  - Meet with the School of Allied Health Sciences advisor to clarify all transfer course work.
2. Submit the UNLV ATEP application as posted on the web site to the program director no later than April 1
3. Successfully complete an on-site interview
4. Receive tentative approval from the Program Director for fall entry

Once these steps have been completed the transfer student must complete the following courses, at UNLV, the summer prior to the fall entry requested.

- SIM 101 Introduction to AT (3 credits)

(Upon passing this class with a 'C' or better an additional 100 point cumulative exam must be taken. A 70% passing grade is required to complete the application process)

- SIM 102 Introduction to AT Clinical (1 credit)

(Students will be required to participate as an athletic training student during football camp in August)

- SIM 150 Management of Sport Trauma/Illness (3 credits)
- SIM 201 Exercise and Sport Injury (3 credits)
- KIN 245 Anatomical Kinesiology (3 credits)

By completing the above courses and requirements with a minimum UNLV GPA of 2.75, a student would arrive at UNLV during the summer session. The courses taken during the summer session would constitute the 1st of the required 5 semesters. The successful student would then be starting the fall semester with the same background as the other students in their cohort.

### **Unsuccessful Candidates**

If a student attempts one of the ATEP entry methods and is unsuccessful, the student can continue to take courses as a Kinesiology major (in one of two academic tracks) and can re-apply to the ATEP in a subsequent fall semester. Students will be encouraged to continue in the Kinesiology major and complete their degree program possibly with a double major in Kinesiology and Athletic Training (assuming they are successful in entering the ATEP in a subsequent year).

## ***Kinesiology Majors***

### **Kinesiology — Allied Health**

The Allied Health specialization option provides education and training for students who wish to prepare for advanced study in medicine, physical therapy, or other health or allied health fields.

### **Kinesiology — Comprehensive**

The Comprehensive Specialization option provides students the opportunity to pursue basic and applied studies of the physiological, biomechanical, social-psychological aspects of human movement and performance education and training in the implementation and direction of physical fitness and conditioning programs in both the public and private sectors.

### ***Admission to the Major***

**Admission Policies:** Students must meet the School of Allied Health Sciences minimum GPA requirement of 2.50 for admission into the department. A student with less than a 2.50 GPA may be admitted as a probationary student with the approval of the chair and/or the faculty.

**Transfer Policies:** Transfer students must meet the School of Allied Health Sciences minimum GPA requirement of 2.50 for admission into the department. Students wishing to transfer credit toward a Bachelor of Science degree in Kinesiology must schedule a formal meeting with a departmental faculty representative or the department chairperson

### **Nutrition Sciences**

The Bachelor of Science in Nutrition Sciences degree is designed to prepare students with an interest in human nutrition to enter the health care field. Programs within Nutrition Sciences are student-focused with contact hours provided through lecture-based courses, laboratory courses, and field experiences with practitioners. Summer and part-time work or volunteer experiences in the profession are encouraged. Students have three concentration areas to choose from in Nutrition Sciences: (1) Dietetics (2) Sports Nutrition and (3) Pre-Professional studies. In addition to these concentrated areas of study, students may select from a number of nutrition specialty courses to further individualize their education.

### **Programs**

#### **Didactic Program in Dietetics (DPD)**

Students pursuing the Registered Dietitian (RD) credential need to fulfill the requirements of the DPD. Students can simultaneously fulfill the degree requirements in Nutrition Sciences and the DPD requirements. The DPD was granted Initial Accreditation by The Accreditation Council for Education in Nutrition and Dietetics (ACEND) of The Academy of Nutrition and Dietetics in 2005. The contact information for ACEND is listed below.

ACEND

120 S. Riverside Plaza, Suite 2000

Chicago, IL 60606-6995

Phone: 312-899-0040, ext. 5400

E-mail: [education@eatright.org](mailto:education@eatright.org)

Website: <http://www.eatright.org/acend>

In order to become a Registered Dietitian (RD) a student must:

1. Earn the B.S. degree in Nutrition Sciences.
2. Complete the DPD course requirements.
3. Apply for, become accepted into, and complete an ACEND-Accredited Dietetic Internship.
4. Pass the National Registration Examination for Dietitians.

### **Nutrition Sciences Concentrations**

1. **Dietetics:** This general program prepares students for traditional positions in health care that utilize knowledge of nutrition for health promotion and wellness, disease prevention, knowledge of medical nutrition therapy, and the ability to educate clients and patients. Students completing this program meet the minimum academic requirements for the Didactic Program in Dietetics.
2. **Sports Nutrition:** This concentration is for students who have a combined interest in nutrition and exercise sciences. Students completing this program meet the minimum academic requirements for the Didactic Program in Dietetics.
3. **Preprofessional:** This area of specialization provides an excellent and well-rounded background for those interested in applying for graduate schools in nutrition-related fields and professional schools. Students completing this program do not meet the minimum academic requirements for the Didactic Program in Dietetics. Students may elect to complete the additional courses needed to fulfill the Didactic Program in Dietetics requirements.

### **Program Objectives**

Programs within the Department of Nutrition Sciences will:

1. Be student-focused. Experienced dietetics professionals will assist students with the acquisition of a strong foundation, knowledge base, and clinical skills and will facilitate students' integration of this knowledge into the practice setting.
2. Include a solid curriculum for entry-level practice in nutrition and dietetics.
3. Be science-based. The curriculum will emphasize evidence-based practice.
4. Foster leadership skills through faculty mentors and professional membership participation.
5. Encourage students to assume the responsibility for lifelong learning and continued professional development.
6. Allow for creativity and flexibility as the profession of dietetics evolves.

### **Admission to the Major**

Minimum GPA: 2.75

### **Admission Policies**

To be admitted into the major, students must complete the following admission requirements:

1. A cumulative high school GPA of 2.75 or higher, or
2. A cumulative GPA of 2.75 or higher in 30 transfer credits accepted by UNLV, or
3. A minimum of 24 semester credits in the core foundation courses with a minimum grade point average of 2.75.
4. Completion of an advising interview with a Division of Health Sciences academic advisor.

### **Transfer Policies**

Students must meet a minimum GPA of 2.75 to transfer into the nutrition sciences major. Transfer students from an accredited institution may be granted up to 64 credits for equivalent prerequisite course work from prior programs. Course work is judged by curriculum content, not credit equivalency. Transfer students from community colleges must complete a minimum of 38 credits in upper-division courses for graduation.

### **Academic Policies**

Upon admission to the sciences major, students must maintain a minimum cumulative GPA of 2.75 each semester and have no grade less than a C in all NUTR, FAB, and KIN courses.

### **Athletic Training Major- Bachelor of Science (BS)**

Please see the UNLV School of Allied Health Sciences web page at [www.alliedhelath.unlv.edu](http://www.alliedhelath.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Division of Health Sciences Academic Advising Center at [alliedhealth.unlv.edu/advising.htm](http://alliedhealth.unlv.edu/advising.htm).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Commission on Accreditation of Athletic Training Education [www.caate.net](http://www.caate.net)

### **Learning Objectives**

1. Understand evidence-based practice concepts and their application.
2. Possess the ability to develop and implement strategies and programs to prevent the incidence and/or severity of injuries and illnesses, optimizing overall patient health and quality of life.
3. Possess strong clinical examination and reasoning skills, based on an understanding of anatomy, physiology, and biomechanics allowing them to accurately formulate a differential diagnosis.
4. Knowledgeable and skilled in the evaluation and immediate management of acute illnesses and injuries.
5. Knowledgeable and skilled in the development and implementation of therapeutic interventions designed to maximize a patients participation and health-related quality of life.
6. Recognize abnormal social, emotional and mental behaviors in their patients and possess the ability to intervene and refer these individuals as necessary.
7. Understand risk management, health care delivery mechanisms, insurance, reimbursement, documentation, patient privacy, and facility management.
8. Embrace the need to practice within the limits of state and national regulation using moral and ethical judgment, while working collaboratively with other health care providers, referring patients appropriately when such referral is warranted.

### **University Graduation Requirements**

• Please see Graduation Policies for complete information  
Athletic Training Degree Requirements .....Total: 120-121 Credits  
General Education Requirements ..... Subtotal: 36-37 Credits  
First-Year Seminar ..... Credits: 2-3  
English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Credits: 3

MATH 124 or higher

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - COM 101 - Oral Communication
  - One additional humanities course
  - One course in fine arts- 3 credits
- Social Science: 9 Credits
  - PSY 101 - General Psychology required
  - SOC 101 - Principles of Sociology recommended
  - One additional Social Science course
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BS in Athletic Training ..... Subtotal: 84 Credits

Sciences ..... Credits: 15

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- KIN 300 - Statistics for the Health Sciences

Athletic Training Core Requirements ..... Credits: 43

- NUTR 340 - Introduction to Sports Nutrition
- SIM 101 - Athletic Training
- SIM 150 - Management of Sport Trauma and Illness
- SIM 201 - Exercise and Sport Injury
- SIM 386 - Assessment and Evaluation of Lower Extremity Injuries
- SIM 387 - Assessment and Evaluation of Upper Extremity Injuries
- SIM 390 - Therapeutic Modalities
- SIM 480\* - Therapeutic Exercise
- SIM 495 - Sports Medicine
- KIN 245 - Anatomical Kinesiology
- KIN 346 - Biomechanics
- KIN 491 - Exercise Physiology

Athletic Training Specialization ..... Credits: 26

- SIM 102 - Introduction to Athletic Training Clinical
- SIM 370 - Clinical Experiences in Athletic Training I
- SIM 371 - Clinical Experiences in Athletic Training II
- SIM 456 - Organization and Administration of Athletic Training Programs
- SIM 470 - Advanced Clinical Experiences in Athletic Training I
- SIM 471 - Advanced Clinical Experiences in Athletic Training II
- SIM 481 - Advanced Athletic Training
- SIM 498 - Seminar in Athletic Training

Total Credits: ..... 120-121

## Kinesiology Major- Bachelor of Science (BS)

Please see the UNLV Department of Kinesiology and Nutrition Science web page at <http://kinesiology.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at the UNLV The Divisions of Health Sciences Academic Advising Center at <http://kinesiology.unlv.edu/advising.html>.

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Recognize Kinesiology career options.
2. Demonstrate knowledge of functional anatomy and biomechanics.
3. Describe the biological foundations of motor control, explain information processing and learning theories, and identify practical concerns relating to enhancement of motor performance.
4. Explain the biomechanical principles that underlie human motor performance.
5. Specify the physiological response to exercise and describe the systemic adaptations that occur at rest and during submaximal and maximal exercise following chronic aerobic, anaerobic, and strength training.
6. Demonstrate knowledge of and ability to discuss the physiological basis of the major components of physical fitness, and develop individual fitness programs.
7. Evaluate current concepts in nutrition in relation to health and disease, and apply guidelines for designing a healthy diet.
8. Explain acute care of sport related injury and illness, and design risk management and injury prevention strategies.
9. Evaluate popular nutrition practices utilized by competitive and recreational athletes, focusing on dietary assessment, scientific validity, and efficacy.
10. Explain the risk factor concept of disease and the role of physical activity in modifying risk factors.
11. Analyze and evaluate research data.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Kinesiology Degree Requirement ..... Total: 120-124 Credits

General Education Requirements ..... Subtotal: 36-37 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Credits: 3

- MATH 124 - College Algebra or higher

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - COM 101 - Oral Communication
  - one 3-credit courses in the humanities and one 3-credit course in fine arts
- Social Science: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 10 credits
  - Automatically satisfied by Major requirement



Multicultural and International..... Credits: 6  
 Multicultural, one 3 credit course required  
 International, one 3 credit course required  
 These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>  
 Major Degree Requirement - BS in Kinesiology - Allied Health..... Subtotal: 79 Credits  
 Sciences ..... Credits: 12

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

Kinesiology Major Requirements ..... Credits: 38

- KIN 175 - Physical Activity and Health
- KIN 245 - Anatomical Kinesiology
- KIN 250 - Social Psychology of Physical Activity
- KIN 300 - Statistics for the Health Sciences
- KIN 312 - Motor Control and Learning
- KIN 316 - Motor Development Across the Lifespan

or

- KIN 414 - Enhancing Mental and Motor Abilities
- KIN 346 - Biomechanics
- KIN 415 - Forensic Kinesiology

or

- KIN 446 - Sport and Exercise Biomechanics

or

- KIN 456 - Biomechanics of Endurance Performance
- KIN 491 - Exercise Physiology
- KIN 492 - Clinical Exercise Physiology
- NUTR 121 - Human Nutrition
- NUTR 340 - Introduction to Sports Nutrition

Allied Health Specialization ..... Credits: 29

- SIM 101 - Athletic Training
- SIM 150 - Management of Sport Trauma and Illness
- SIM 201 - Exercise and Sport Injury
- SIM 386 - Assessment and Evaluation of Lower Extremity Injuries
- SIM 387 - Assessment and Evaluation of Upper Extremity Injuries
- SIM 390 - Therapeutic Modalities
- SIM 480\* - Therapeutic Exercise
- SIM 495 - Sports Medicine

Electives..... Credits: 5  
 Total Credits: ..... 120  
 Major Requirements - BS in Kinesiology - Comprehensive..... Subtotal: 57 Credits  
 Major Requirements - BS in Kinesiology - Comprehensive..... Subtotal: 57 Credits  
 Sciences ..... Credits: 12

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II

Kinesiology Major Requirements ..... Credits: 45

- KIN 175 - Physical Activity and Health
- KIN 245 - Anatomical Kinesiology
- KIN 250 - Social Psychology of Physical Activity
- KIN 300 - Statistics for the Health Sciences
- KIN 312 - Motor Control and Learning
- KIN 316 - Motor Development Across the Lifespan

or

- KIN 414 - Enhancing Mental and Motor Abilities
- KIN 346 - Biomechanics
- KIN 415 - Forensic Kinesiology

or

- KIN 446 - Sport and Exercise Biomechanics

or

- KIN 456 - Biomechanics of Endurance Performance
- KIN 491 - Exercise Physiology
- KIN 492 - Clinical Exercise Physiology
- NUTR 121 - Human Nutrition
- NUTR 340 - Introduction to Sports Nutrition
- SIM 150 - Management of Sport Trauma and Illness
- KIN 490 - Internship in Kinesiology

or

- KIN 499 - Independent Study in Kinesiology

Electives..... Credits: 27  
 Total Credits: ..... 120  
 Major Requirement - BS in Kinesiology - Fitness Management..... Subtotal: 70 Credits  
 Sciences ..... Credits: 18

- BIOL 189 - Fundamentals of Life Science
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- KIN 300 - Statistics for the Health Sciences
- NUTR 340 - Introduction to Sports Nutrition

Fitness Management Core..... Credits: 20

- KIN 172 - Foundations of Kinesiology
- KIN 175 - Physical Activity and Health
- KIN 245 - Anatomical Kinesiology
- KIN 312 - Motor Control and Learning
- KIN 346 - Biomechanics
- KIN 491 - Exercise Physiology

Fitness Management Specialization ..... Credits: 32

- KIN 250 - Social Psychology of Physical Activity
- KIN 308 - Scientific Basis of Strength Development
- KIN 309 - Advanced Personal Training
- KIN 316 - Motor Development Across the Lifespan
- KIN 475 - Seminar in Sport and Fitness Management
- KIN 485 - Physical Activity and the Law
- KIN 490 - Internship in Kinesiology
- KIN 492 - Clinical Exercise Physiology
- SIM 101 - Athletic Training
- SIM 150 - Management of Sport Trauma and Illness

Electives..... Credits: 32  
 Total Credits: ..... 124

## Nutrition Science - Bachelor of Science (BS)

Please see the UNLV Department of Nutrition Science web page at <http://nutrition.unlv.edu/> for information about department programs, faculty and facilities.

Please see advising information at The Division of Health Sciences Academic Advising Center at <http://www.unlv.edu/healthsciences>.

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. The program will prepare graduates for a dietetics career utilizing the knowledge and skills gained during the DPD.

2. Recruit and retain a diverse population of students.
3. Provide mentoring opportunities to foster participation in various educational and professional activities.
4. Provide students with the opportunity to work with a diverse population.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Nutrition Science Degree Requirements ..... Total: 120 Credits

General Education Requirements..... Subtotal: 36-37 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics..... Credits: 3

- MATH 124 - required for Dietetics and Sports Nutrition Concentrations

- MATH 127 - Precalculus II or higher - required for Pre-Professional Concentration

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts Credits: 9

- Two courses from two different areas - 6 credits

- One course in Fine Arts - 3 credits

- Social Science Credits: 9

- One course each from three different fields

- Life and Physical Sciences and Analytical Thinking

- Automatically satisfied by Major requirements

Multicultural and International

- Multicultural, one 3 credit course required

- International, NUTR 301 - Nutrition, Health and Ethnic Issues

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirement - BS in Nutrition Science -

Dietetics ..... Subtotal: 84 Credits

Foundations Courses..... Credits: 23

- BIOL 189 - Fundamentals of Life Science

- BIOL 223 - Human Anatomy and Physiology I

- BIOL 224 - Human Anatomy and Physiology II

- BIOL 251 - General Microbiology

- CHEM 108 - Introduction to Chemistry

- KIN 300 - Statistics for the Health Sciences

- MATH 124 - College Algebra

- NUTR 223 - Principles of Nutrition

- NUTR 271 - Introduction to Nutrition and Dietetics

- NUTR 301 - Nutrition, Health and Ethnic Issues

Required Nutrition Sciences..... Credits: 48

- FAB 101 - Food Service Sanitation I

- FAB 159 - Food Service Operations Fundamentals

- FAB 160 - Hospitality Purchasing

- FAB 361 - Principles of Food Science

or

- NUTR 326 - Principles of Food Science

- NUTR 223 - Principles of Nutrition

- NUTR 271 - Introduction to Nutrition and Dietetics

- NUTR 301 - Nutrition, Health and Ethnic Issues

- NUTR 311 - Nutrition Assessment

- NUTR 311L - Nutrition Assessment

- NUTR 370 - Nutrition in the Life Cycle

- NUTR 405 - Advanced Sports Nutrition

- NUTR 426 - Medical Nutrition Therapy I

- NUTR 427 - Medical Nutrition Therapy II

- NUTR 429 - Dietetics Business and Management Principles I

- NUTR 431 - Seminar in Nutrition

- NUTR 450 - Nutritional Pathophysiology

- NUTR 451 - Nutrition and Metabolism

- NUTR 470 - Community Nutrition

Nutrition Sciences Elective Courses..... Credits: 13

- NUTR 315 - Field Experience in Nutrition

- NUTR 407 - Complementary and Integrative MNT

- NUTR 408 - Nutrition, Food and Policy

- NUTR 430 - Dietetics, Business, and Management Principles II

- NUTR 466 - Nutritional Anthropology

- NUTR 475 - Undergraduate Research in Nutrition

- NUTR 490 - Special Topics in Nutrition

- NUTR 491 - Independent Study in Clinical Nutrition

- NUTR 495 - Practicum in Nutrition Education

- KIN 461 - Physical Activity in Aging

- KIN 462 - Adult Development in Aging

- KIN 492 - Clinical Exercise Physiology

- KIN 491 - Exercise Physiology

Electives..... Credits: 6

Total Credits: ..... 120

### Nutrition Sciences - Pre Professional Concentration

Major Requirement - BS in Nutrition Science -

Pre Professional Concentration..... Subtotal: 84 Credits

Foundation Courses ..... Credits: 38

- BIOL 189 - Fundamentals of Life Science

- BIOL 223 - Human Anatomy and Physiology I

- BIOL 224 - Human Anatomy and Physiology II

- BIOL 251 - General Microbiology

- CHEM 121A - General Chemistry I

- CHEM 121L - General Chemistry Laboratory I

- CHEM 122A - General Chemistry II

- CHEM 122L - General Chemistry Laboratory II

- CHEM 241 - Organic Chemistry I

- CHEM 241L - Organic Chemistry for Life Sciences Lab I

- CHEM 242 - Organic Chemistry II

- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II

- CHEM 474 - Biochemistry I

- KIN 300 - Statistics for the Health Sciences

Required Nutrition Sciences..... Credits: 42

- KIN 491 - Exercise Physiology

- NUTR 223 - Principles of Nutrition

- NUTR 271 - Introduction to Nutrition and Dietetics

- NUTR 301 - Nutrition, Health and Ethnic Issues

- NUTR 311 - Nutrition Assessment

- NUTR 311L - Nutrition Assessment

- NUTR 370 - Nutrition in the Life Cycle

- NUTR 405 - Advanced Sports Nutrition

- NUTR 426 - Medical Nutrition Therapy I

- NUTR 427 - Medical Nutrition Therapy II

- NUTR 431 - Seminar in Nutrition

- NUTR 450 - Nutritional Pathophysiology

- NUTR 451 - Nutrition and Metabolism
  - NUTR 452 - Nutrition and Metabolism II
  - NUTR 470 - Community Nutrition
- Select from the Following Electives ..... Credits: 4
- NUTR 315 - Field Experience in Nutrition
  - NUTR 407 - Complementary and Integrative MNT
  - NUTR 408 - Nutrition, Food and Policy
  - NUTR 466 - Nutritional Anthropology
  - NUTR 475 - Undergraduate Research in Nutrition
  - NUTR 490 - Special Topics in Nutrition
  - NUTR 491 - Independent Study in Clinical Nutrition
  - NUTR 495 - Practicum in Nutrition Education
  - KIN 461 - Physical Activity in Aging
  - KIN 492 - Clinical Exercise Physiology
- Electives..... Credits: 4
- Total Credits: ..... 120
- Major Requirement - BS in Nutrition Science -
- Sports Nutrition Concentration ..... Subtotal: 84 Credits
- Foundation Courses ..... Credits: 23
- BIOL 189 - Fundamentals of Life Science
  - BIOL 223 - Human Anatomy and Physiology I
  - BIOL 224 - Human Anatomy and Physiology II
  - CHEM 108 - Introduction to Chemistry
  - MATH 124 - College Algebra
  - NUTR 271 - Introduction to Nutrition and Dietetics
  - NUTR 301 - Nutrition, Health and Ethnic Issues
  - NUTR 370 - Nutrition in the Life Cycle
  - NUTR 223 - Principles of Nutrition
- Required Nutrition Sciences..... Credits: 52
- FAB 101 - Food Service Sanitation I
  - FAB 159 - Food Service Operations Fundamentals
  - FAB 160 - Hospitality Purchasing
  - FAB 361 - Principles of Food Science
- or
- NUTR 326 - Principles of Food Science
  - NUTR 223 - Principles of Nutrition
  - NUTR 271 - Introduction to Nutrition and Dietetics
  - NUTR 301 - Nutrition, Health and Ethnic Issues
  - NUTR 311L - Nutrition Assessment
  - NUTR 370 - Nutrition in the Life Cycle
  - NUTR 405 - Advanced Sports Nutrition
  - NUTR 426 - Medical Nutrition Therapy I
  - NUTR 427 - Medical Nutrition Therapy II
  - NUTR 429 - Dietetics Business and Management Principles I
  - NUTR 431 - Seminar in Nutrition
  - NUTR 450 - Nutritional Pathophysiology
  - NUTR 451 - Nutrition and Metabolism
  - NUTR 470 - Community Nutrition
  - KIN 491 - Exercise Physiology
- Specialty Courses - Credits: 9
- KIN 492 - Clinical Exercise Physiology
- or
- NUTR 407 - Complementary and Integrative MNT
- or
- NUTR 491 - Independent Study in Clinical Nutrition
- or
- NUTR 495 - Practicum in Nutrition Education

- Specialty Courses ..... Credits: 6
- NUTR 405 - Advanced Sports Nutrition
  - NUTR 426 - Medical Nutrition Therapy I
  - NUTR 427 - Medical Nutrition Therapy II
  - NUTR 429 - Dietetics Business and Management Principles I
  - NUTR 431 - Seminar in Nutrition
  - NUTR 450 - Nutritional Pathophysiology
  - NUTR 451 - Nutrition and Metabolism
  - NUTR 452 - Nutrition and Metabolism II
  - KIN 492 - Clinical Exercise Physiology
- and
- NUTR 407 - Complementary and Integrative MNT
- or
- NUTR 491 - Independent Study in Clinical Nutrition
- Electives..... Credits: 6
- Total Credits: ..... 120

## Minor

### Kinesiology Minor

- Courses Include ..... Total Credits: 21
- KIN 175 - Physical Activity and Health
  - KIN 245 - Anatomical Kinesiology
  - KIN 250 - Social Psychology of Physical Activity
  - KIN 312 - Motor Control and Learning
  - KIN 346 - Biomechanics
  - KIN 491 - Exercise Physiology
  - SIM 101 - Athletic Training

## Kinesiology and Nutrition Sciences

### KIN 172 - Foundations of Kinesiology

Examines and explores the field of kinesiology, as the academic study of human movement. Presents the knowledge of kinesiology as a comprehensive, cross-disciplinary synthesis of various academic approaches from a variety of subdisciplines. 3 credit(s)

### KIN 175 - Physical Activity and Health

Basic understanding of elementary exercise physiology as it applies to exercise and physical fitness. Principles of good nutrition and caloric values of common foods. Energy equation and factors in weight gain and weight loss. Practical assessment of fitness and body composition. 3 credit(s)

### KIN 191 - Exercise for the Overweight or Type II Diabetic

Development and implementation of physical fitness and weight control for the obese and/or Type II diabetic. Instruction on proper exercise techniques combined with regular fitness training classes to improve overall cardiovascular endurance, strength, body composition, and flexibility. All participants undergo a pre- and post-physical fitness assessment to monitor conditioning status. (Available for a letter grade option only once.) May be repeated to a maximum of six credits. 1 credit(s)

### KIN 242 - Theory of Pool/Spa Operation

(Same as RLS 242.) Prepares health, physical education, and recreation professionals, and hotel management personnel with the necessary fundamentals of pool/spa operation relative to a healthful and safe environment. 2 credit(s)

### KIN 245 - Anatomical Kinesiology

Anatomical analysis of human movement as a basis for teaching and adaptation of motor skills. Prerequisite(s): BIOL 189. 3 credit(s)

### KIN 250 - Social Psychology of Physical Activity

Introduction to current theories, research methodology, and practical concerns relating to the sociological/psychological perspectives of sport and physical activity. Prerequisite(s): KIN 175, SOC 101 or PSY 101. 3 credit(s)

**KIN 300 - Statistics for the Health Sciences**

Introduction to quantitative methods in the analysis and interpretation of data from research in the health and human movement sciences. Emphasis on conceptual understanding, appropriate application of tests, and interpretation of results. Prerequisite(s): MATH 120 or higher. 3 credit(s)

**KIN 308 - Scientific Basis of Strength Development**

For individuals interested in the design and assessment of strength and resistance training programs. Topics include: scientific and theoretical basis of strength; different types and systems of training; different types of equipment; designing training programs; myths and fallacies; and detraining. Prerequisite(s): KIN 245. 3 credit(s)

**KIN 309 - Advanced Personal Training**

Examination of the personal fitness training profession. Emphasis on developing skills for client education and motivation, and establishing criteria for designing and implementing personalized training programs for clients. Prerequisite(s): KIN 175. 3 credit(s)

**KIN 310 - Advanced Strength Methods**

Theory and principles of resistance exercise programs. Emphasis on mechanism of adaptation to resistance exercise; design and implementation of strength training programs for enhancement of athletic performance; and role of strength training in improving general health and fitness. Prerequisite(s): KIN 308. 3 credit(s)

**KIN 312 - Motor Control and Learning**

Introduction to motor performance and learning, including biological foundations of motor control, information processing, learning theories, instructional and training procedures to enhance learning. Prerequisite(s): PSY 101. 3 credit(s)

**KIN 316 - Motor Development Across the Lifespan**

Examination of motor and cognitive development throughout the lifespan. Special emphasis on skilled performance, learning theories, motor abilities, individual differences, developmental considerations, and instructional and training procedures for infants through older adulthood. 3 credit(s)

**KIN 346 - Biomechanics**

Mechanical analysis of internal and external forces acting on the human body and the effects of those forces. Special emphasis on teaching motor skills in a physical education and athletic setting. Laboratory experience to enhance learning. Prerequisite(s): KIN 245 and MATH 124. 4 credit(s)

**KIN 401 - History of Exercise and Sport Science**

Historical concepts, systems, patterns, and traditions that have influenced American physical activity and sport, with emphasis on the evolution of kinesiology within the discipline of exercise and sport science. Prerequisite(s): KIN 172. Note(s): This course is crosslisted with KIN 601. Credit at the 600-level requires additional work. 3 credit(s)

**KIN 414 - Enhancing Mental and Motor Abilities**

Topics of mental and motor abilities including attention, arousal states, information processing, and practice schedules. Special emphasis on enhancing motor performance through mental strategies. Prerequisite(s): KIN 250, KIN 312, or KIN 316. Note(s): This course is crosslisted with KIN 614. Credit at the 600-level requires additional work. 3 credit(s)

**KIN 415 - Forensic Kinesiology**

Survey of forensic investigation. Focus on personal injury and accident avoidance from an interdisciplinary perspective. Emphasis on humans and their interactions in the physical environment. Prerequisite(s): KIN 245. Note(s): This course is crosslisted with KIN 615. Credit at the 600-level requires additional work. 3 credit(s)

**KIN 424 - Professional Development in Kinesiological Sciences**

The course applies principles of cognitive neuroscience and psychomotor kinesiology to develop skills in professional communication and leadership as related to fields of kinesiology. Topics include team cohesion, effective group and individual communication, strategies for professional goal setting, interview skills, networking, leading and managing self and organizations. Prerequisite(s): PSY 101 or SOC 101, junior standing. 3 credit(s)

**KIN 440 - Human Physiology**

(Same as BIOL 440.) Principles of human physiology, normal functioning of human body as a whole, and interrelationships of organs and organ systems. Emphasis on physiological processes and their interrelationships. Prerequisite(s): BIOL 189. 3 credit(s)

**KIN 446 - Sport and Exercise Biomechanics**

Mechanics applied to the analysis of human movement in sport and exercise activities. Emphasis on developing both qualitative and quantitative skills to assess and improve performance. Prerequisite(s): KIN 346. 3 credit(s)

**KIN 456 - Biomechanics of Endurance Performance**

The primary objective of this course is to provide a study of endurance performance from a biomechanical perspective. At the conclusion of the course, the student will be able to apply biomechanical terminology to understand factors that influence endurance swimming, biking, and running performance. Prerequisite(s): KIN 346. Note(s): This course is crosslisted with KIN 656. Credit at the 600-level requires additional work. 3 credit(s)

**KIN 457 - Physiology of Endurance Performance**

The primary objective of this course is to provide a study of endurance performance from an exercise physiology perspective. At the conclusion of the course, the student will be able to demonstrate an understanding of physiological factors that influence endurance swimming, biking, and running performance, for example. Prerequisite(s): KIN 346. 3 credit(s)

**KIN 461 - Physical Activity in Aging**

Introductory course in adult fitness and maintenance. Objectives and components of physical fitness analyzed to meet the needs and capabilities of the older population. Specific programs of exercise and related physical activities explored. 3 credit(s)

**KIN 462 - Adult Development in Aging**

Physical and psychophysiologic developmental patterns in adulthood and normal aging explored. Relationships of the physical and socio-environmental interactions to the adult physical life process with considerations to successful aging within life stages reviewed. 3 credit(s)

**KIN 475 - Seminar in Sport and Fitness Management**

Bridges the professional sequence and the clinical experience of students enrolled in supervised on-site professional experiences. Corequisite(s): KIN 490. Prerequisite(s): Consent of instructor. 1 credit(s)

**KIN 485 - Physical Activity and the Law**

Legal principles associated with physical activity professions. Emphasis on practical application of legal issues in risk management, safety procedures, negligence, liability, contracts, and professional ethics, as well as recognition and minimization of legal risk during physical activity. Note(s): This course is crosslisted with KIN 685. Credit at the 600-level requires additional work. 3 credit(s)

**KIN 490 - Internship in Kinesiology**

Supervised on-site professional experience in local settings that encompass all age groups including health clubs, YMCAs, industry, nursing homes, and senior activity centers. Prerequisite(s): Consent of instructor and upper division standing. May be repeated to a maximum of 6 credits. 3-6 credit(s)

**KIN 491 - Exercise Physiology**

Physiological changes in human organisms during physical exercise; physiological bases for planning physical education programs; observations of respiratory, circulatory, nervous, and metabolic adjustments to physical exercise. Laboratory experience to enhance learning. Prerequisite(s): BIOL 224. Note(s): This course is crosslisted with KIN 691. Credit at the 600-level requires additional work. 4 credit(s)

**KIN 492 - Clinical Exercise Physiology**

Pathophysiology of cardiovascular disease; role of exercise in treatment and prevention of coronary heart disease; exercise stress testing principles and procedures; prescribing exercise programs for healthy adults and patient populations. Prerequisite(s): BIOL 224. 3 credit(s)



**KIN 493 - Applied Exercise Physiology**

Experience applying theoretical concepts introduced in exercise physiology. Introduction to the scientific method and research writing. Prerequisite(s): BIOL 189, KIN 300, KIN 491. 3 credit(s)

**KIN 499 - Independent Study in Kinesiology**

Independent study of a selected topic in kinesiology and nutrition sciences. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-6 credit(s)

***Nutrition*****NUTR 121 - Human Nutrition**

Emphasis on the classification, digestion, absorption, metabolism, and function of carbohydrates, lipids, proteins, water, vitamins, and minerals in the human body. Energy metabolism and nutrient needs during the lifecycle and for special populations will be discussed. A personal dietary assessment project will be required. Note(s): Not for NUTR majors. 3 credit(s)

**NUTR 223 - Principles of Nutrition**

Nutrition functions and bases for nutrient requirement at the cellular level. Corequisite(s): NUTR 271 Prerequisite(s): Pre-NUTR major only; MATH 124 or higher (not MATH 132); CHEM 108; BIOL 189. 3 credit(s)

**NUTR 271 - Introduction to Nutrition and Dietetics**

Formerly Listed as NUTR 201

Exposure to various areas of the field of dietetics, including clinical, community, management, and consultant paths. The nature of the work, the occupational outlook, ethics, networking and professionalism are covered. Corequisite(s): NUTR 223. Prerequisite(s): Pre-NUTR Major only; MATH 124 or higher (not MATH 132); CHEM 108; BIOL 189. 1 credit(s)

**NUTR 301 - Nutrition, Health and Ethnic Issues**

Discussions of the historical, geographic, political and religious factors influencing the nutritional status, eating customs, and meal patterns of various ethnic groups. Fulfills the university international course requirement. Prerequisite(s): ENG 101. Note(s): Satisfies International Requirement. 3 credit(s)

**NUTR 311 - Nutrition Assessment**

Computerized dietary analysis systems, growth charts, national health and nutrition surveys, biochemical parameters and physical signs of nutritional status, and anthropometric assessment techniques. Also includes a self-paced interactive study of medical terminology. Prerequisite(s): Nutrition majors only, NUTR 223, NUTR 271, NUTR 370, MATH 124 or higher. Lab/Lecture/Studio Hours: Three hours lecture and three hours laboratory. Laboratory fee required. 1-4 credit(s)

**NUTR 311L - Nutrition Assessment**

Computerized dietary analysis systems, growth charts, national health and nutrition surveys, biochemical parameters and physical signs of nutritional status, and anthropometric assessment techniques. Also includes a self-paced interactive study of medical terminology. Prerequisite(s): MATH 127, NUTR 370. Lab/Lecture/Studio Hours Three Hours: lecture and three hours laboratory. Laboratory fee required. 1-4 credit(s)

**NUTR 315 - Field Experience in Nutrition**

Students participate in various community nutrition intervention projects aimed at improving eating habits and physical activity patterns of the participants. Students gain experience working with people from various stages in the life cycle (children through older adults) and they learn to provide appropriate nutrition education for age, educational level, and cultural background. Prerequisite(s): NUTR 223 and NUTR 201. May be repeated to a maximum of six credits. 1-3 credit(s)

**NUTR 326 - Principles of Food Science**

The intent of this course will be the in depth study of food science. The course materials will concentration on the selection of foods and the chemical and physical properties of food that affect their preparation and acceptability. Basic fundamentals of food science and underlying technology associated with providing a safe, nutritious, and abundant supply of fresh and process foods to humans. Prerequisite(s): CHEM 108, FAB 101, FAB 159. 3 credit(s)

**NUTR 340 - Introduction to Sports Nutrition**

Formerly Listed as NUTR 240

Evaluation of current concepts in sports nutrition. Findings translated into practical guidelines for fitness, dietary regimens supplementation, ergogenic aids, and food consumption. Not for NUTR majors. Prerequisite(s): NUTR 121. 3 credit(s)

**NUTR 370 - Nutrition in the Life Cycle**

Changes in nutrient needs during reproduction, growth and development and aging discussed with consideration given to physiologic, social, economic, and life-style factors that influence nutrition status, food choices and specific life-stage concerns. Prerequisite(s): NUTR 223. 3 credit(s)

**NUTR 405 - Advanced Sports Nutrition**

Popular nutrition practices utilized by competitive and recreational athletes focusing on dietary analyses, scientific support and efficacy. Emphasis on fuel, alterations in body composition, weight control, metabolic pathways, and ergogenic aids. Prerequisite(s): NUTR 311/311L. 3 credit(s)

**NUTR 406 - Food Microbiology**

(Same as BIOL 470.) Microorganism classification, normal populations, gastrointestinal flora, food-borne illnesses, sanitation safety, and new technologies. Prerequisite(s): BIOL 251/251L. Lab/Lecture/Studio Hours Laboratory experiences offered twice a week to enhance lecture topics. Semester credit hours (3); 3 hour lecture; (2) 3 hour laboratory sessions. 3 credit(s)

**NUTR 407 - Complementary and Integrative MNT**

Emphasis on research methods and science-based literature to evaluate the safety, standardization and efficacy of popular therapies, including herbals, botanicals, and dietary supplements for preventive and nontraditional medical nutrition therapies. Prerequisite(s): NUTR 311/311L. 3 credit(s)

**NUTR 408 - Nutrition, Food and Policy**

Combination lecture and seminar course covering laws and policies related to health care, food, and nutrition, including, but not limited to, advertising, labeling, food assistance, and biotechnology. The role of federal and state regulations and agencies in these areas is also covered. Prerequisite(s): NUTR 370. 3 credit(s)

**NUTR 426 - Medical Nutrition Therapy I**

In-depth exploration of the Nutrition Care Process, including relevant documentation, standardized language, comprehensive nutrition assessment, interpretation of laboratory values, food and medication interactions and individualized patient and client care planning. Prerequisite(s): NUTR 311/311L and BIOL 224/224L. 3 credit(s)

**NUTR 427 - Medical Nutrition Therapy II**

Medical Nutrition Therapy and nutrition support as applied to specific disease states. Conditions impacting weight management, bone health, eating disorders, diabetes, renal, hepatic, and gastrointestinal disorders are covered. Corequisite(s): NUTR 450 and NUTR 437. Prerequisite(s): NUTR 426. 3 credit(s)

**NUTR 429 - Dietetics Business and Management Principles I**

Business and management theories and practices specific to dietetics professionals in clinical practice, food service management, community nutrition, and private practice. Prerequisite(s): FAB 160, FAB 361, or NUTR 326, NUTR 311, NUTR 311L, NUTR Major Only. 3 credit(s)

**NUTR 430 - Dietetics, Business, and Management Principles II**

Case study approach to support theories and principles taught in NUTR 429. Prerequisite(s): NUTR 429. 3 credit(s)

**NUTR 431 - Seminar in Nutrition**

Synthesizes knowledge of nutrition as a science and the role of nutrition and dietetics professionals in the future of the Nutrition Care Process. Corequisite(s): NUTR 427; NUTR 450. Prerequisite(s): NUTR 426. 3 credit(s)

**NUTR 436 - Food Microbiology Laboratory**

(Same as BIOL 469L.) Practical laboratory experiences in food microbiology; methodology for identification and quantification of microbes for food safety. Corequisite(s): NUTR 406. Prerequisite(s): BIOL 251. Note(s): Laboratory fee required. 2 credit(s)

**NUTR 437 - Medical Nutrition Therapy Practicum**

Practicum sessions, on and off campus, with emphasis on application of the Nutrition Care Process. Corequisite(s): NUTR 427. Prerequisite(s): NUTR 426. 1 credit(s)

**NUTR 450 - Nutritional Pathophysiology**

Investigation of pathophysiology of common human metabolic disorders. Develops an understanding of the role of nutrition in the etiology and treatment of these disorders through examination of case studies. Prerequisite(s): BIOL 224, CHEM 108, NUTR 311, NUTR 311L, NUTR Major Only. 3 credit(s)

**NUTR 451 - Nutrition and Metabolism I**

Cellular metabolism of carbohydrates, lipids, proteins, vitamins, and minerals, including energy transformation, digestion, absorption, transport, and malnutrition. Prerequisite(s): BIOL 224, CHEM 108, NUTR 311, NUTR 311L, NUTR Major Only. 3 credit(s)

**NUTR 452 - Nutrition and Metabolism II**

Cellular metabolism of macronutrients and micronutrients at an advanced level. Course will emphasize food sources, current research, and translating research into clinical practice. Prerequisite(s): NUTR 426, NUTR 451, NUTR majors only. 3 credit(s)

**NUTR 466 - Nutritional Anthropology**

(Same as ANTH 466.) Provides anthropological perspective on the multifaceted nature of human relationships to food, especially regarding health, disease, and malnutrition in the contemporary world. Variety of theoretical and methodological approaches explored. Prerequisite(s): NUTR 223. 3 credit(s)

**NUTR 470 - Community Nutrition**

Provides background and skill development on the organization, implementation and evaluation of community-based nutrition programs for individuals and communities. A field experience providing an opportunity to observe or assist with screenings, education programs or community events will be required out of class. Prerequisite(s): NUTR 271, NUTR 311, NUTR 311L, NUTR Major Only. 3 credit(s)

**NUTR 475 - Undergraduate Research in Nutrition**

Participation in a research project in nutrition selected by faculty and students to demonstrate potential in the field. Project may be conducted as an integrated project or an independent activity. Prerequisite(s): NUTR 311/311L and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**NUTR 490 - Special Topics in Nutrition**

Focuses on specific nutrition-related issue not covered in depth in other NUTR courses. Prerequisite(s): NUTR 311/311L. May be repeated to a maximum of six credits. Note(s): Offered for students who have a common interest in a nutrition topic. 1-3 credit(s)

**NUTR 491 - Independent Study in Clinical Nutrition**

Formerly Listed as NUTR 480.

Independent study of selected nutrition topics. Assignments/projects designed by instructor to meet the needs of the student. Prerequisite(s): NUTR 311/NUTR 311L and consent of instructor. May be repeated to a maximum of nine credits. 1-3 credit(s)

**NUTR 495 - Practicum in Nutrition Education**

Practical experiences for students to share information with populations of various ages and nutritional needs. Guidance provided for planning and implementing nutrition education sessions, program evaluation, and use of multimedia technologies. Prerequisite(s): NUTR 311/311L and consent of instructor. 1-3 credit(s)

**PEX 179 - Outdoor Yoga Retreat and Campout**

An introductory course that infuses yoga techniques learned in class with inspiration and beautiful scenery while exploring the outdoors. The yoga retreat and overnight campout is an experientially-based excursion focusing on yoga exercise for varying abilities and the basic skills of camping. May be repeated to a maximum of six credits. 2 credit(s)

**SIM 101 - Athletic Training**

Basic principles in the prevention, recognition, and care of athletic injuries and the duties of an athletic trainer in the sports medicine program. 3 credit(s)

**SIM 102 - Introduction to Athletic Training Clinical**

Provides an understanding of the practical settings within the athletic training profession. Includes training room procedures and operations and basic ankle taping skills. Prerequisite(s): Acceptance into the Athletic Training Educational Program. 1 credit(s)

**SIM 150 - Management of Sport Trauma and Illness**

Provides the athletic trainer with the knowledge and skills necessary to recognize and manage sport trauma and sports-associated illness. Prepares students to assist in sustaining life following traumatic injury, reducing pain, and minimizing the consequences of injury or sudden illness in the athletic environment. Prerequisite(s): SIM 101. 4 credit(s)

**SIM 180 - Introduction to Physical Therapy**

Basic introduction to anatomical, physiological, and kinesiological concepts along with an introduction to physical therapy equipment. Includes discussion of relevant diseases and disabilities generally associated with physical therapy. 3 credit(s)

**SIM 201 - Exercise and Sport Injury**

Provides knowledge to recognize and manage orthopedic injury as a result of exercise or sport participation. Topics include: Pathology Injury, Musculoskeletal conditions of the extremities, pelvis, spine, head and face, as well as General Medical Conditions. Prerequisite(s): SIM 101 and SIM 150. 3 credit(s)

**SIM 370 - Clinical Experiences in Athletic Training I**

Formerly Listed as SIM 270

Clinical experience in athletic training provided in the athletic training treatment center. Emphasis on training room policies and procedures and the skills of taping, padding, and bracing. Prerequisite(s): SIM 102. 6 credit(s)

**SIM 371 - Clinical Experiences in Athletic Training II**

Formerly Listed as SIM 271

Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on the application of modalities within the practical setting and basic principles of rehabilitation. Prerequisite(s): SIM 370. 4 credit(s)

**SIM 386 - Assessment and Evaluation of Lower Extremity Injuries**

In-depth study of the anatomy and functional abilities of the lower extremity. Emphasis on the assessment techniques used for evaluating common athletic injuries. Prerequisite(s): SIM 201, KIN 245, a grade of "C" or better in both BIOL 223 and BIOL 224. Lab/Lecture/Studio Hours Three hours lecture and two hours lab. 4 credit(s)

**SIM 387 - Assessment and Evaluation of Upper Extremity Injuries**

In-depth study of the anatomy and functional abilities of the upper extremity. Emphasis on the assessment techniques used for evaluating common athletic injuries. Prerequisite(s): SIM 386. Lab/Lecture/Studio Hours Three hours lecture and two hours lab. 4 credit(s)

**SIM 390 - Therapeutic Modalities**

Equips students with an understanding of the inflammatory process and pain. Includes the physiologic reactions, contraindications, and indications for: heat, cold, electricity, sound, and water. Prerequisite(s): SIM 101, a grade of "C" or better in both BIOL 223 and BIOL 224. Lab/Lecture/Studio Hours Three hours lecture and two hours lab. 4 credit(s)

**SIM 396 - Seminar in Sports Injury Management**

Prepares students for field experience placement, graduate school and full-time employment. Professional and ethical conduct discussed. Can be taken by all majors but must be taken by pre-professional studies majors. Prerequisite(s): SIM 386. 1 credit(s)

### **SIM 456 - Organization and Administration of Athletic Training Programs**

Organization and administration of athletic training programs in conventional and clinical settings including athletic training room management, budgeting, staffing, insurance, record keeping and data bases, emergency care planning, legal issues, design of new facilities, and public relations. Prerequisite(s): SIM 371. 3 credit(s)

### **SIM 470 - Advanced Clinical Experiences in Athletic Training I**

Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on advanced techniques of evaluation used during assessment and rehabilitation of injuries to the lower extremity. Prerequisite(s): SIM 371. 5 credit(s)

### **SIM 471 - Advanced Clinical Experiences in Athletic Training II**

Clinical experiences in athletic training provided in the athletic training treatment center. Emphasis on advanced techniques of evaluation used during assessment and rehabilitation of injuries to the upper extremity. Prerequisite(s): SIM 470. 4 credit(s)

### **SIM 480 - Therapeutic Exercise**

Physiology of trauma and the subsequent effects on tissues as the basis for rehabilitation. Techniques of therapeutic exercise, planning rehabilitation programs and manual muscle testing. Prerequisite(s): SIM 101 and SIM 386. Lab/Lecture/Studio Hours Three hours lecture and two hours lab. 4 credit(s)

### **SIM 481 - Advanced Athletic Training**

Advanced study in the prevention and specific care of athletic injuries. Focuses on sport nutrition, special athletes, professionals involved in the sports medicine team and other related topics. Preparation for national certification as an athletic trainer discussed. Prerequisite(s): SIM 371. 3 credit(s)

### **SIM 495 - Sports Medicine**

Pharmacological aspects of sports medicine. Basic drugs used to treat a variety of sports-related injuries and problems. Pathophysiology of athletic injury. Special topics in sports medicine discussed. Prerequisite(s): SIM 386, SIM 390, Kinesiology or Athletic Training major status. 3 credit(s)

### **SIM 497 - Field Experiences in Athletic Training**

Practicum for upper-division students to experience working in a traditional or non-traditional athletic training setting in the community. Prerequisite(s): SIM 396, upper-division standing, and approval of instructor. May be repeated to a maximum of six credits. 1-6 credit(s)

### **SIM 498 - Seminar in Athletic Training**

Designed to prepare students for the BOC certification exam, graduate school application, and full time employment. Professional and ethical conduct will be discussed. Prerequisite(s): SIM 271. 1 credit(s)

### **SIM 499 - Special Problems in Athletic Training**

Specialized instruction and/or research designed to develop in-depth understanding of a current athletic training problem, trend, or issue. Prerequisite(s): Consent of instructor and upper-division standing. May be repeated to a maximum of six credits. 1-6 credit(s)

## **School of Nursing**

### ***Purpose and Focus***

Graduates of the program are expected to demonstrate competencies consistent with being a critical thinker, a culturally competent caring provider of health care, an effective communicator, and a responsible manager of health care. Graduates are prepared to be successful in the National Council Licensure Examination (NCLEXRN), which is required to practice and be licensed as a Registered Nurse in all states.

### ***Degree Objectives***

At the conclusion of the program of study, graduates will:

1. Use emerging patient care technologies and information systems to support safe and effective nursing practice.
2. Integrate leadership concepts, skills, and decision making in the provision of high quality nursing care delivery in a variety of settings.
3. Apply knowledge of health care policy, finance and regulatory environments, including local, state, national and global health care trends in nursing practice.
4. Integrate professional values, attitudes, knowledge, and behaviors into nursing practice.
5. Demonstrate sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care at the individual, group, and community levels.
6. Apply principles that enhance safety for patients and health care providers through both individual performance and system effectiveness.
7. Demonstrate effective inter- and intra-professional communication and collaboration for improving patient outcomes.
8. Use clinical prevention strategies to promote health and prevent disease across the life span at the individual and population levels.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
Commission on Collegiate Nursing Education  
Nevada State Board of Nursing - Approved

### ***Undergraduate Majors***

Nursing

### ***Area of Concentration***

B.S. in Nursing

Offers preparation for licensure as a registered nurse.

### ***Licensure Programs***

Graduates of the BS in Nursing Program must successfully complete the NCLEX-RN examination to obtain licensure.

### ***Admission to the Major***

Minimum GPA: 3.00

**Admission Policies:** Students are admitted each semester. Students utilize the admission criteria published within the Undergraduate Catalog in effect at the time of admission to UNLV pre-nursing (PRN) major. Once admitted to the nursing program, students are expected to maintain continuous full-time enrollment, thus allowing completion



of the nursing course work in 16 months. Students may apply and be accepted only twice into the nursing program. Once a student has begun the nursing program, they may not reapply as a new student if they are unsuccessful in, or withdraw from, their nursing courses, except if the failure occurs in first semester. UNLV offers no part-time undergraduate B.S. nursing degrees.

**B.S. in Nursing:** Students must first be admitted into pre-nursing (PRN) and have a cumulative grade point average of 2.50. Students with a GPA between 2.00 and 2.50 may be admitted as nursing probationary students

Students are eligible for admission to the nursing major (NUR-4YR) when a UNLV GPA of 3.00 is established and the student has earned a B (3.00) in the following prerequisites: MATH 120 - Fundamentals of College Mathematics or higher (except MATH 122, 123, 132), BIOL 223 - Human Anatomy and Physiology I and BIOL 224 - Human Anatomy and Physiology II, BIOL 251 - General Microbiology, NURS 299 - Nutrition and Development Across the Lifespan and has earned a minimum of a C (2.00) in all other general education and prerequisite courses. For acceptance into the nursing program, the B (3.00) grade in the identified courses must be earned in either the first or second enrollment, including a withdrawal or audit in the course. In addition, students will be required to complete the HESI A2 Entrance Exam prior to admission to the nursing program. Students must achieve a 75% average or higher on their first or second completion of the A2 exam to be eligible for admission. UNLV pre-nursing students are required to take only four HESI A2 sub-exams: Math, Grammar, Reading Comprehension and Anatomy & Physiology. A 75% average or higher must be obtained on all sub-exams to be eligible to apply. To be admitted into the School of Nursing, an applicant who is a non-native English speaker must provide proof of English language proficiency. A non-native speaker is an individual whose primary language in the home was a language other than English (or a non-English language) or who received a K-12 (or equivalent) education in schools where English was not the medium of instruction. Admission will only be considered if the student scores a 100 points or above on the TOEFL iBT (internet) language proficiency exam. This is the only proficiency exam the SON will accept. Students may formally apply three times a year. Eligibility is verified by a pre-nursing advisor in the Division of Health Sciences Advising Center Classroom Education Building (CEB 399) during a mandatory in-person BSN signing appointment. Please call (702) 895-5448 to schedule an appointment. Students are rank ordered based on the GPA of their required science, math and NURS 299 courses, number of times courses are repeated, and the results of the HESI A2 Entrance Exam. Admission will be offered to those students achieving the highest rank scores first until all openings are filled. Refer to the admission ranking worksheet which is available online at <http://www.unlv.edu/sites/default/files/24/Nursing-CalculationWorksheetUpdated-2013.pdf> or at the Division of Health Science Advising Center. Students not accepted must reapply for admission in subsequent semesters. Policies regarding process for notification and response are also available on the School of Nursing website.

### Transfer Policies

**B.S. in Nursing:** Transfer students may gain admission eligibility into pre-nursing (PRN) via several routes. If the transfer GPA is 3.00 or above and the prerequisite course work has been completed with the required grades, the student will be admitted into the B.S. nursing program based on rank scoring as noted above. If the transfer GPA

is 2.50-2.99, nine credits of UNLV core requirements or prerequisite course work at UNLV must be completed with a GPA of 3.00. If the transfer GPA is 2.00-2.49, students must complete a probationary contract in which 15 UNLV core requirements or prerequisite course work must be completed with a 3.00 GPA to remove the probationary status. Transferring into the program from another nursing program is considered on a case-by-case basis. Transfer students must have a letter of "good academic standing" from their prior School of Nursing Dean sent directly to the School of Nursing Associate Dean of Academic Affairs.

**Nursing Student Handbook:** Students accepted into the B.S. in Nursing Program should obtain a copy of the Nursing Student Handbook from the School of Nursing website for identification of additional policies and procedures. Students are accountable for observing the policies in the handbook. Prior to beginning nursing courses, students will be asked to:

1. Sign a waiver releasing the School of Nursing and the University of Nevada, Las Vegas, from responsibility for injury or illness resulting from exposure to disease, medicines, or treatments while in the clinical setting.
2. Evidence of IGRA blood testing (QuantiFERON-TB Gold in tube (QFT)); or Evidence of chest x-ray and medical follow-up for those with past history of positive reactivity.
3. Provide documentation of measles, mumps, rubella, varicella diphtheria and tetanus immunizations according to the most recent CDC guidelines. While attending the program, the vaccinations must be within the 10-year time frame.
4. Provide evidence of completion of the hepatitis B vaccine series, a titer indicating presumptive immunity, or a statement from a health care provider indicating that the vaccination is contraindicated for health reasons.
5. Provide evidence of the flu shot every fall.
6. Provide documentation of physical examination within one year prior to admission to nursing program demonstrating the student's ability to perform the essential functions of the registered nurse, with or without reasonable accommodations (Essential functions can be found on the School of Nursing website.)
6. Provide evidence of a negative drug screen. Further information provided in the nursing orientation.
8. Provide certification of completion of BLS health care provider skills offered by the American Heart Association.
9. Complete a criminal background check as identified on the School of Nursing website.
10. Provide evidence of current health insurance. The student is responsible to determine that health insurance coverage includes provisions of a needle stick or other high-risk exposure in the clinical setting, as well as the cost of anti-HIV drugs if warranted. Proof of health insurance coverage is required each semester.

**Credit:** Clinical contact hour ratio: one credit = three contact hours.

**Progression:** To progress in the B.S. in Nursing Program, students must achieve a minimum of a C (2.00) in each of the required nursing courses.

If a student receives less than a C (2.00) in a nursing class and it is the first occurrence, the student will be allowed to repeat the nursing course. (The student must renegotiate the nursing program contract and will be placed in the needed course at the next opportunity that class space is available.)



If a student is unsuccessful in an additional course with the NURS prefix (in the same semester or later semesters), the student will be dismissed from the school. Unsuccessful is defined as:

1. Dropping a class in which the student has an average below C at the date of withdrawal from classes.
2. Completion of the course with a grade average below C (2.00).
3. An F grade resulting from failure to withdraw from the class.
4. Having an average below C (2.00) at the time of complete withdrawal from the university.
5. Failing the clinical portion of a clinical course.

Reinstatement to the baccalaureate program requires approval of the School of Nursing Student Affairs Council. If reinstatement is recommended, the recommendation may include stipulations. Reinstatement is not automatic and is dependent upon the student's total record of performance. The privilege of reinstatement is granted only once.

If the failed course in which the student was unsuccessful is a prerequisite or co-requisite (requiring concurrent enrollment) to other nursing courses, as identified in the current catalog, the student will not be allowed to progress. All prerequisite or co-requisites must be successfully completed prior to progression to any course scheduled in subsequent semesters. This policy would affect students as illustrated in the following example: NURS 320 identifies the following courses as prerequisites (NURS 305, 306, and 307). If the student has not completed all of those courses with a satisfactory grade, he or she could not enroll in NURS 320.

## ***Policies Specific to B.S. in Nursing***

**Incoming Student Orientation:** Incoming students are required to attend a student orientation. At the orientation session, information concerning the program will be provided and student data collected.

**Medication Calculation Policy:** Students must demonstrate continuing and growing competence in medication calculation specific to various clinical areas. The student must demonstrate on a designated exam a grade of 100% in each course that has a clinical component. If 100% score is not obtained in three attempts, the student will not progress to the following semester.

**Standardized Competency Exams:** Undergraduate students participate in a standardized testing program throughout the nursing program. Selected tests are required each semester and are calculated as part of the student's final grade. See the BSN Student Handbook for procedural aspects of this policy.

## ***Fees***

Students will be assessed course fees each semester.

## ***Advisement***

After admission to the nursing program, all students will be assigned a nursing advisor from the undergraduate nursing faculty. Students are encouraged to meet with their advisor once a semester or as needed.

**Nursing Program Contracts:** All pre-nursing (PRN) and nursing majors (NUR4YR) are required to negotiate a program contract. Pre-nursing students meet with the Pre-nursing Advisor. The Pre-nursing program contract provides a semester-by-semester schedule identifying prerequisite classes needed to establish eligibility for admission to the nursing program. Nursing majors (NURS4YR) meet with the BSN Coordinator to sign nursing program contracts.

## **Nursing Major - Bachelor of Science (BS)**

Please see the UNLV School of Nursing web page at [www.unlv.edu/nursing](http://www.unlv.edu/nursing) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Division of Health of Sciences Advising Center at [www.unlv.edu/nursing/student-resources/advising](http://www.unlv.edu/nursing/student-resources/advising).

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Commission on Collegiate Nursing Education (CCNE) [www.aacn.nche.edu/ccne-accreditation](http://www.aacn.nche.edu/ccne-accreditation)

## ***Learning Outcomes***

1. Use emerging patient care technologies and information systems to support safe, effective nursing practice.
2. Integrate leadership concepts, skills and decision-making in the provision of high-quality nursing care delivery in a variety of settings.
3. Apply knowledge of healthcare policy, finance and regulatory environments, including local, state, national and global healthcare trends in nursing practice.
4. Integrate professional values, attitudes, knowledge, and behaviors into nursing practice.
5. Demonstrate sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care at the individual, group, and community levels.
6. Demonstrate effective inter- and intra-professional communication and collaboration for improving patient outcomes.
7. Apply principles that enhance safety for patients and health care providers through both individual performance and system effectiveness.
8. Use clinical prevention strategies to promote health and prevent disease across the life span at the individual and population levels.

## ***University Graduation Requirements***

- Please see Graduation Policies for complete information.
- |  |                      |
|--|----------------------|
| Nursing Degree Requirements.....                                 | Total: 122 Credits   |
| General Education Requirements.....                              | Subtotal: 36 Credits |
| First-Year Seminar .....   | Credits: 2           |
| (see note 1)   |                      |
| English Composition .....  | Credits: 6           |
| • ENG 101 - Composition I  |                      |
| • ENG 102 - Composition II                                       |                      |
| Second-Year Seminar .....  | Credits: 3           |
| Constitutions .....  | Credits: 4           |
| • PSC 101 - Introduction to American Politics                    |                      |
| or   |                      |
| • HIST 100 - Historical Issues and Contemporary Society          |                      |
| Mathematics.....   | Credits: 3           |
| MATH 120 or higher   |                      |
| Distribution Requirement .....                                   | Credits: 18          |
| Please see Distribution Requirements for more information.       |                      |
| • Humanities and Fine Arts: 9 Credits                            |                      |
| • Spanish course preferred - 3 credits                           |                      |
| • One 3 credits course from a different humanities areas         |                      |
| • One introductory or appreciation course from a fine arts area  |                      |
| • Social Science: 9 Credits                                      |                      |
| • PSY 101 - General Psychology                                   |                      |
| • SOC 101 - Principles of Sociology                              |                      |
| • plus 1 additional 3 credit class other than PSY or SOC courses |                      |

- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

NURS 299, Multicultural International

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Nursing ..... Subtotal: 87

Additional courses ..... Credits: 3-4

Select one course from the following

- ECON 261 - Principles of Statistics I
- KIN 300 - Statistics for the Health Sciences
- STAT 152 - Introduction to Statistics
- PSY 210 - Introduction to Statistical Methods
- SOC 404 - Statistical Methods in the Social Sciences

Sciences ..... Credits: 23

- BIOL 189 - Fundamentals of Life Science
- BIOL 251 - General Microbiology
- BIOL 223 - Human Anatomy and Physiology I
- BIOL 224 - Human Anatomy and Physiology II
- CHEM 108 - Introduction to Chemistry
- NURS 299 - Nutrition and Development Across the Lifespan

Nursing Core Requirements ..... Credits: 60

- NURS 305 - Patient Centered Care: Basic Principles
- NURS 306 - Foundations in Pharmacology
- NURS 307 - Health Assessment of Diverse Populations
- NURS 313R - Nursing Care of the Adult Medical-Surgical Patient
- NURS 320 - Pharmacology and Pathophysiology Across the Lifespan
- NURS 325 - Professional Communication in Diverse Health Care Settings
- NURS 329 - Physical Assessment Skills
- NURS 342 - Fundamentals of Nursing Lab
- NURS 350 - Population Focused Nursing in the Community
- NURS 401 - Nursing Care of Older Adults
- NURS 405 - Nursing Care of Women and Childbearing Families
- NURS 406 - Nursing Care of Childrearing Families
- NURS 419 - Care of Individuals and Their Family Experiencing Emotional or Mental Health Disruptions
- NURS 420 - Evidence Based Practice and Research in Nursing
- NURS 425 - Managing Complex Nursing Care in Diverse Populations
- NURS 427 - Nursing Leadership and Transition into Practice

Total Credits: ..... 122

#### Note:

1. HSC 100 fulfills the First Year Seminar requirement.

## Nursing

### NURS 139 - Fundamentals of Medical Calculations for Health Professions

Covers all four major drug calculation methods used in health professions today. Ratio & proportion, formula, fractional equation, and dimensional analysis are presented. A variety of realistic practice problems are addressed. Drug administration techniques and devices are included. 2 credit(s)

### NURS 140 - Medical Terminology

Study of word derivation and formation with emphasis upon the understanding of common usage in the field of health care. 3 credit(s)

### NURS 220 - Basic Nursing Informatics

Basic understanding of how automation and technology are used to manage information in nursing practice settings. Focuses on the use of computers as a tool to aid nurses to perform patient care in a variety of settings. Prerequisite(s): PRN or NURS major. 3 credit(s)

### NURS 299 - Nutrition and Development Across the Lifespan

Focuses on application of health promotion and normal growth and development principles and the science of nutrition in health across the lifespan, emphasizing sociocultural factors within the United States. Theory = 3 credits. Prerequisite(s): Must achieve a grade of "B" or better in BIOL 223 or BIOL 224. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

### NURS 305 - Patient Centered Care: Basic Principles

Introduction to nursing practice emphasizing application of the nursing process, critical thinking, psychomotor skills, communication skills, and documentation. Provides content on selected common disorders. Explores historical and theoretical perspectives of nursing as a profession, with introduction of ethical-legal decision-making. Emphasizes need for evidence-based practice and use of informatics in nursing. Theory = 4 credits, clinical = 2 credits. Corequisite(s): NURS 342. Prerequisite(s): NURS 299 and program contract. 4 credit(s)

### NURS 306 - Foundations in Pharmacology

Introduces the student to basic pharmacokinetics, pharmacodynamics, pharmacoeconomics, and the relationship between pathophysiology and pharmacologic management. Emphasis on introductory principles and nursing management of drug therapy related to NURS 305. Theory = 3 credits. Prerequisite(s): NURS 299 and program contract. 3 credit(s)

### NURS 307 - Health Assessment of Diverse Populations

Acquisition of skills to perform a holistic patient assessment - including sociocultural, spiritual, family, and complete physical assessment. Normal assessment findings emphasized; however, health risk factors and common abnormalities discussed. Theory = 3 credits. Corequisite(s): NURS 329. Prerequisite(s): NURS 299 and program contract. 3 credit(s)

### NURS 313R - Nursing Care of the Adult Medical-Surgical Patient

Focus on development of professional, patient-centered care for acutely ill patients. Emphasis is placed on applying sound clinical judgment in the planning, provision, and evaluation of evidence-based nursing care. Clinical experience will occur in acute settings with acutely ill adults. Theory = 4 credits, clinical = 3 credits. Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342. 7 credit(s)

### NURS 320 - Pharmacology and Pathophysiology Across the Lifespan

Examines the pathologies from selected body systems across the lifespan. Pharmacology appropriate to the pathologies will be studied. Content will expand upon knowledge learned from NURS 306. Theory = 2 credits. Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342. 2 credit(s)

**NURS 322 - Identification and Assessment in Addictions**

(Same as COU 427.) How to identify and assess individuals with addictions. Epidemiological, pathological, physiological and cultural basis of addictions across the life-span examined. Includes assessment/screening tools, motivational interviewing, the family system, enabling and resource and referral system. Prerequisite(s): COU 320. 3 credit(s)

**NURS 325 - Professional Communication in Diverse Health Care Settings**

Explores issues related to professional communication within diverse health care settings. Considers innovative and evidence-based strategies that enhance communication and relationship building skills for nurses. Develops abilities to effectively communicate with patients and other health care professionals. Theory = 2 credits. Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342. 2 credit(s)

**NURS 329 - Physical Assessment Skills**

Acquisition of skills (inspection, palpation, percussion, and auscultation) needed to perform a comprehensive physical assessment. Interviewing techniques and documentation skills will be developed. Normal assessment findings emphasized; however, health risk factors and common abnormalities discussed. Corequisite(s): NURS 307. 1 credit(s)

**NURS 342 - Fundamentals of Nursing Lab**

Formerly Listed as NURS 388.

Learner directed skills course where students come prepared to practice and perform designated nursing skills in a safe environment. Students apply collaboration, critical thinking, problem solving, peer and self-evaluation, and documentation as they practice the designated nursing skills. Corequisite(s): NURS 305. 1 credit(s)

**NURS 350 - Population Focused Nursing in the Community**

Concepts of population-focused health care used to promote health across diverse groups of persons defined by socio-demographic and geographic boundaries. Content is focused on partnering with communities to assess health data within a community health model of care. Clinical experience occurs in laboratory and community settings with culturally diverse populations. Theory = 2 credits, clinical = 2 credits. Prerequisite(s): NURS 305, NURS 306, NURS 307, NURS 329, NURS 342. 4 credit(s)

**NURS 401 - Nursing Care of Older Adults**

Formerly Listed as NURS 319. Apply theories, concepts, and evidence-based practices in care for older adults. Recognize personal and societal attitudes regarding aging and their impact on delivery and quality of health care and the impact of age-related changes and morbidity on illness, treatment, and rehabilitation. Clinical experiences in health care and community settings. Theory = 3 credits, clinical = 3 credits. Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350. 6 credit(s)

**NURS 405 - Nursing Care of Women and Childbearing Families**

The examination and application of the theories of maternal-child centered nursing care from pregnancy to labor and delivery, postpartum and newborn nursery. Emphasis is on acute care and health promotion in the maternal-child clinical setting. Clinical experience will be primarily in the acute care inpatient setting. Theory = 1.5 credits, clinical = 1.5 credits. Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350. 3 credit(s)

**NURS 406 - Nursing Care of Childrearing Families**

This course focuses on the examination and application of the theories of family centered nursing care from infancy through adolescence. Emphasis is on health promotion. Clinical experience will be primarily in the acute care inpatient setting and community. Theory = 2 credits, clinical = 2 credits. Prerequisite(s): NURS 313R, NURS 320, NURS 325, NURS 350. 4 credit(s)

**NURS 419 - Care of Individuals and Their Family Experiencing Emotional or Mental Health Disruptions**

Implement holistic, patient centered care based on an understanding of human growth and development, pathophysiology, behavioral health regimens, pharmacology, communication skills and nursing interventions with children, adolescents and adults experiencing major emotional or mental health disruptions. Theory = 2 credits, clinical = 2 credits. Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420. 4 credit(s)

**NURS 420 - Evidence Based Practice and Research in Nursing**

Formerly Listed as NURS 418. Evidence-based Practice and Research is the study of the foundations upon which scientific investigations of health are based. Emphasis is on evidence-based practice, including research methodologies, processes and critical appraisal of the health care literature. This course is on-line and/or a combination of on-line and traditional in-person classroom formats. Theory = 3 credits. Prerequisite(s): Undergraduate statistics, NURS 313R, NURS 320, NURS 325, NURS 350. 3 credit(s)

**NURS 422 AIDS: An Interdisciplinary Perspective**

(Same as HED 422 and SWK 422.) Interdisciplinary survey of various issues surrounding AIDS (Acquired Immune Deficiency Syndrome) as viewed from several conceptual, professional, and experiential disciplines. Offers the most current cognitive information about AIDS and provides an affective awareness of major issues related to the disease. Note(s): This course is crosslisted with NURS 622. Credit at the 600-level requires additional work. 3 credit(s)

**NURS 425 - Managing Complex Nursing Care in Diverse Populations**

This course focuses on the provision of professional nursing care to patients with complex health problems. Emphasis is placed on use of the nursing process with individuals and families in primary, secondary and/or tertiary settings. Theory = 3 credits, clinical = 4. Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420. 7 credit(s)

**NURS 427 - Nursing Leadership and Transition into Practice**

Apply leadership concepts, skills, and decision making in implementing high quality nursing care, healthcare team coordination, and the oversight and accountability for care delivery in a variety of settings. Explore the pathway to licensure, job preparation and succeeding in practice settings. Theory = 3 hours, clinical = 1 hour. Corequisite(s): NURS 425. Prerequisite(s): NURS 401, NURS 405, NURS 406, NURS 420. 4 credit(s)

**NURS 473 - Health and Disease in Antiquity**

(Same as ANTH 467.) Covers paleopathology, or, the study of disease in ancient populations. It provides an overview of morbidity over the last 20,000 years for many different populations from around the globe. Information on disease is drawn from human skeletal and mummified remains, as well as from archaeological reconstructions of lifestyle and diet. Prerequisite(s): Any one of the following: ANTH 102, BIOL 100, BIOL 121, BIOL 189 or BIOL 223, or NURS 299 or equivalent. 3 credit(s)

**NURS 474 - Medical Anthropology**

(Same as ANTH 426.) Provides a broad overview of medical anthropology, covering such biocultural topics as disease and human evolution and ecology of disease, as well as culturally centered approaches in the field, including ethnomedicine (culture-specific conceptions of health and illness), healers in cross-cultural perspective, and medical anthropology practiced in clinical and public health settings. Prerequisite(s): ANTH 101 or ANTH 102. 3 credit(s)

**NURS 486 - Gerontology**

Study of age-related changes of the elderly relevant to their needs and delivery of health care. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with NURS 686. Credit at the 600-level requires additional work. 3 credit(s)

**NURS 490 - Special Topics in Nursing**

Information related to broad topic areas. Separate units focus on aspects of a) Medical Nursing, b) Surgical Nursing, c) Psychiatric Nursing, d) Obstetrical Nursing, e) Pediatric Nursing, f) Gerontological Nursing, g) Research in Nursing, i) The Profession of Nursing, j) Specialty Areas in Nursing, k) Preventative Aspects of Health Care. Other specific topic areas published in class schedules. Prerequisite(s): Upper-division standing. 1-3 credit(s)

**NURS 498 - Independent Study**

Independent research projects under faculty supervision. May be repeated to a maximum of nine credits. 1-3 credit(s)



# School of Community Health Sciences

## ***Purpose and Focus***

The purpose of the School of Community Health Sciences (SCHS) is to prepare individuals to become effective public health practitioners, health care managers and administrators, and other health professionals who will competently identify public health problems and needs, develop effective mechanisms to address those needs, and promote appropriate services for the protection of human health. The SCHS is actively involved in educational, research, and outreach programs in public health with the expectation to be nationally recognized as innovative, comprehensive in nature and scope, cooperative in character, and ensure that graduates can serve as catalysts to promote population health in Nevada, the nation and the world.

The School of Community Health Sciences offers undergraduate preparation programs in Health Care Administration and Policy (Bachelors of Science) and Public Health (Bachelors of Science).

## ***Accreditation***

Northwest Commission on Colleges and Universities  
Association of University Programs in Health Administration

## **Health Care Administration Major**

Students in the undergraduate Health Care Administration program gain a broad view of the health care delivery system and health care management practices. They develop skills through the curriculum and internships to prepare them primarily for entry level management positions in the organization, financing, and delivery of health care services.

## ***Admission Policies***

A cumulative grade point average of 2.50 and completion of nine credits of department prerequisite courses is required for admission to the major.

Pre-requisite courses to be taken before applying for admission to the health care major include: MATH 124 or higher; PSY 101 or SOC 101, or ECON 102; HCA 175 or HCA 201.

## **Public Health Major**

The public health degree program provides students with a comprehensive program of study in preparation for careers and advanced degrees in public health. Public health majors take a set of core classes that span the broad scope of health promotion, disease prevention, and eliminating health disparities. Students will also complete a set of classes in one of four areas of emphasis: environmental health, social/behavioral health, epidemiology, or public health generalist. All students will complete their studies with a culminating experience of either a public health practicum or a senior thesis.

## ***Admission to the Major***

A cumulative grade point average of 2.75 and completion of general education math and science requirements.

## ***Advisement***

Students are encouraged to seek advisement in the Advising Center regarding general education and program requirements. Enrollment caps may apply. Program of study sheets are available in the College of Health Sciences Advising Center. It is the student's responsibility to obtain current information relative to departmental policies and program of study.

## **Health Care Administration Major - Bachelor of Science (BS)**

Please see the UNLV College of Sciences, Health Care Administration department web page at <http://www.unlv.edu/hca> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [healthsciencesadvisingcenter@unlv.edu](mailto:healthsciencesadvisingcenter@unlv.edu).

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Program - Association of University Programs in Health Administration  
[aupha.org/main/home/](http://aupha.org/main/home/)

## ***Learning Outcomes***

- Students are able to describe the nature of health care services, including the demographic, social, political, economic, technological, legal, ethical, professional and historic factors that influence the present and future direction of health care.
- Students are able to describe the nature and function of health care organizations, including multi-institutional systems and managed care arrangements.
- Students are able to describe the distribution and determinants of health and disease, including the influences of individual behavior, the environment, and health care technology in the prevention and progression of disease, as well as the restoration of health.
- Students are able to describe managerial knowledge and skills of health care organization change, design, performance, strategic planning, marketing, problem-solving, decision making and leadership.
- Students are able to apply basic quantitative abilities in health care financial management, computer literacy, operations analysis, management information systems, statistics and research methods.
- Students are able to demonstrate the ability to integrate theories and practices of health care administration in the practice setting through a faculty-supervised practicum.

## **University Graduation Requirements**

- Please see Graduation Policies for complete information
- |   |                         |
|---|-------------------------|
| Health Care Administration Requirements ..... | Total: 120 Credits      |
| General Education Requirements .....          | Subtotal: 39-43 Credits |
| First-Year Seminar .....                      | Credits: 2-3            |
| English Composition .....                     | Credits: 6              |
| • ENG 101 - Composition I                     |                         |
| • ENG 102 - Composition II                    |                         |
| Second-Year Seminar .....                     | Credits: 3              |
| (see note 1 below)                            |                         |
| Constitutions .....                           | Credits: 4-6            |
| Mathematics .....                             | Credits: 3              |
| Distribution Requirement .....                | Credits: 18-19          |
- Please see Distribution Requirements for more information.



- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 Credits
  - Two courses from life and physical sciences category; at least one course must have a lab.
  - Analytical Thinking
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International..... Credits: 3  
(see note 1 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements or second year or third year milestone courses simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>  
Major Requirements - BS in Health Care Administration -  
Subtotal:..... 72-75 Credits  
Includes Foundation Courses (24 credits); HCA courses (39-42 credits); and approved guided electives (9-12 credits).

Health Care Administration Foundation Courses ..... Credits: 24

- ACC 201 - Financial Accounting
- ACC 202 - Managerial Accounting
- IS 101 - Introduction to Information Systems
- ECON 103 - Principles of Macroeconomics

3 credits of statistics (e.g. ECON 261, PSY 210, SOC 403)

- ECON 102 - Principles of Microeconomics

Two social science courses (6 credits) to be approved by a Division of Health Sciences advisor.

Health Care Administration Core Requirements ..... Credits: 39-42

- HCA 175 - U.S. Health Care System
- HCA 201 - Health Care Law
- HCA 202 - Epidemiological Concepts for Health Care Administration
- HCA 299 - Developing Leaders in the Changing Healthcare Environment
- HCA 300 - Management of Health Services Organizations
- HCA 302 - Health Care Finance
- HCA 308 - Management of Health Information Systems
- HCA 330 - Strategic Planning and Marketing for Health Care Organizations
- HCA 401 - Pre-Practicum in Health Care Administration
- HCA 402 - Quantitative Management for Health Care Organizations
- HCA 403 - Managed Care
- HCA 404 - Human Resources Management for Health Care Organizations
- HCA 493 - Health Care Administration Practicum

Guided Electives..... Credits: 12

- HCA 203 - Multicultural Diversity and the US Health Care System
- HCA 452 - Health Politics and Policy
- HCA 480 - Organization and Management of Long-Term Care Services

are among the preferred guided elective courses. See Division of Health Sciences academic advisors and/or website (<http://hca.unlv.edu>) for a list of other approved guided elective courses.

Electives..... Credits: 5-12

Total Credits ..... 120

## Note

1. Specific restrictions on courses fulfilling this requirement exist. See the UNLV General Education Core Requirement Section of this catalog for additional information.

## Public Health Major - Bachelor of Science (BS)

Please see the Public Health web page at [unlv.edu/degree/bs-public-health](http://unlv.edu/degree/bs-public-health) for information about department programs, faculty and facilities.

Please see advising information at the Public Health Undergraduate Advising at [alliedhealth.unlv.edu/advising.htm](http://alliedhealth.unlv.edu/advising.htm).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

- Gain knowledge of human cultures and the physical and natural world as it relates to individual and population health through focused engagement on big questions, both contemporary and enduring.
- Gain intellectual and practical skills practiced extensively, across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
- Learn personal and social responsibility anchored through active involvement with diverse communities and real-world challenges.
- Experience integrative and applied learning demonstrated through the application of knowledge, skills, and responsibilities to new settings and complex problems.

### •University Graduation Requirements

- Please see Graduation Policies for complete information

Public Health Degree Requirements ..... Total: 120 Credits

General Education Requirements ..... Subtotal: 37-38 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

(see note 1)

Constitutions ..... Credits: 4

- PSC 101 - Introduction to American Politics

Mathematics ..... Credits: 3

- MATH 126 - Precalculus I

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Automatically satisfied by Major requirements
- Social Science: 9 Credits
  - (see note 2 below)
- Life and Physical Sciences and Analytical Thinking: 10 Credits
  - BIOL 189 - Fundamentals of Life Science
  - ENV 101 - Introduction to Environmental Science
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

(see note 3 & 4 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

#### Major Requirements -

BS in Public Health.....Subtotal: 82 Credits

Additional Degree Requirements..... Credits: 12

- HCA 175 - U.S. Health Care System
- STAT 152 - Introduction to Statistics

Economics Elective..... Credits: 3

Physical Science Elective..... Credits: 3

any BIOL, CHEM, GEOL, PHYS, EGG 100 or EGG 130. Any ENV class if ENV not selected as the Minor Area of Study

Minor Area of Study..... Credits: 24

All public health majors will minor in a field of study complementary to their interests. Students may choose from the list below or other approved minor:

- Environmental Studies
- Biological Sciences
- Anthropology
- Sociology
- Or other approved minor

Public Health Major Core Requirements..... Credits: 42

- PBH 200 - Multicultural Health
- PBH 202 - Introduction to Epidemiology
- PBH 205 - Introduction to Public Health
- PBH 210 - Principles of Health Promotion
- PBH 225 - History of Public Health
- PBH 275 - Injury Prevention and Control
- PBH 330 - Global Health
- PBH 360 - Research Methods for Public Health
- PBH 460 - Health Ecology and Sustainability

Plus two (2) of the following upper division public health courses

- PBH 407 - Stress Management
- PBH 429 - Education for Sexuality
- PBH 435 - Health Studies on Dangerous Drugs

Plus three (3) of the following upper division public health courses

- PBH 340 - Built Environment and Health
- PBH 365 - Applied Biostatistics for Public Health
- PBH 445 - Food access and health
- PBH 455 - Active Transport, Physical Activity and Health

Culminating Experience..... Credits: 3

- PBH 495 - Public Health Capstone

or

Total Credits: ..... 120

#### Notes

1. PBH 205 is recommended for Public Health Majors.
2. The Social Science requirement can be fulfilled by any three PBH courses or by a Social Science minor.
3. The Multicultural requirement is fulfilled by PBH 200 - Multicultural Health. This is a required class for Public Health majors.
4. The International requirement is fulfilled by PBH 330 - Global Health. This is a required class for Public Health majors.

## Minor

### Public Health Minor

Course Include..... Total Credits: 24

The Public Health Minor is designed for students with interests in the social and/or environmental aspects of public health and for those who seek careers that may be enhanced by background in public health. These include, but are not limited to, biological sciences, environmental sciences, anthropology, and sociology. To minor in Public Health, students must complete a set of 6 core classes and two additional upper division courses from the list below.

Lower Division Required Courses

- PBH 205 - Introduction to Public Health
- PBH 202 - Introduction to Epidemiology
- PBH 210 - Principles of Health Promotion
- HCA 203 - Multicultural Diversity and the US Health Care System

Upper Division Required Courses

- PBH 330 - Global Health
- PBH 340 - Built Environment and Health

Select two Additional Upper Division Courses from the list below:

- PBH 445 - Food access and health
- PBH 455 - Active Transport, Physical Activity and Health
- PBH 460 - Health Ecology and Sustainability
- PBH 422 - AIDS: An Interdisciplinary Perspective
- HCA 452 - Health Politics and Policy
- PBH 498 - Special Topics in Public Health

Sustainability and Health Minor

Course Include..... Credits: 24

The Sustainability and Health Minor is designed for students with interests in creating sustainable environmental and population health. This minor would be a suitable companion to urban planning, sociology, environmental sciences and other areas of study. To minor in Sustainability and Health, students must complete a set of 24 required courses

Lower Division Required Courses

- PBH 205 - Introduction to Public Health
- ENV 101 - Introduction to Environmental Science
- CEE 250 - Sustainability in Civil and Environmental Engineering

Upper Division Required Courses

- PBH 340 - Built Environment and Health
- PSC 403C - Environmental Policy
- PBH 455 - Active Transport, Physical Activity and Health
- PBH 445 - Food access and health
- PBH 460 - Health Ecology and Sustainability

Select two Additional Upper Division PBH and HCA Courses

## **Community Health Sciences**

### **HCA 175 - U.S. Health Care System**

Survey of the U.S. Health Care System. Meets general education requirements for first year experience including writing and research resources. Provide introduction to the health care system and gain exposure to the local health care environment. 3 credit(s)

### **HCA 201 - Health Care Law**

Examination of the concepts of tort and administrative laws applicable to health care situations. Prerequisite(s): ENG 101. 3 credit(s)

### **HCA 202 - Epidemiological Concepts for Health Care Administration**

Introduction to epidemiology as the study of distributions and determinants of health and disease in a population. Application of epidemiological information and approaches in health care administration practice. Note(s): (Same as PBH 202). 3 credit(s)

### **HCA 203 - Multicultural Diversity and the US Health Care System**

Examines role of race and ethnicity in need for, access to, and delivery of health care in US. Special emphasis on role discrimination may play in health care disparities. Also examines role of cultural diversity and competency in health care delivery. Focus on diversity programs in Southern Nevada. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

### **HCA 299 - Developing Leaders in the Changing Healthcare Environment**

Emerging Perspectives in Healthcare is designed as a second year experience and milestone course. Through community site visits, guest lectures, group discussion and course work the student will deepen their knowledge of local and national healthcare systems. The course objectives emphasize leadership, communication, ethics, cultural diversity, and system influences. 3 credit(s)

### **HCA 300 - Management of Health Services Organizations**

Theories and practices of management of health services organizations. Application of organizational behavior, administrative processes and techniques in health services organizations. Prerequisite(s): HCA 175 or HCA 201. 3 credit(s)

### **HCA 302 - Health Care Finance**

Covers principles of financial accounting, managerial accounting, and managerial finance for health care organizations. Prerequisite(s): ECON 102, HCA 175, ACC 201, ACC 202, IS 101. 3 credit(s)

### **HCA 308 - Management of Health Information Systems**

Introduces the fundamental knowledge and tools for managing information effectively in health care organizations. Examines different health information systems. Discusses principles, methods, and applications to provide access to timely and high quality health information. Explores how to effectively adapt information technology to improve organizational performance in health care settings. Prerequisite(s): Must be an HCA major. 3 credit(s)

### **HCA 330 - Strategic Planning and Marketing for Health Care Organizations**

Integrates all functional areas of health care organizations. Covers principles of accounting, marketing, operations management, human resource management, and finance. Utilizes case studies to illustrate concepts. Prerequisite(s): HCA 175. 3 credit(s)

### **HCA 401 - Pre-Practicum in Health Care Administration**

Formerly Listed as HCA 399

Preparatory seminar emphasizing interviewing skills, listening skills, self-assessment, time management, professional behavior, resume preparation, technical writing skills, and medical terminology. Participation in site visits and lectures at selected healthcare organizations. Introduction to practicum requirements. Prerequisite(s): HCA 175, 201, 202, 300, 302, 330. 3 credit(s)

### **HCA 402 - Quantitative Management for Health Care Organizations**

Introduces concepts of operations management for managers of health care organizations with an emphasis on service issues. Develops skills in quantitative and statistical analysis. Prerequisite(s): HCA 175, IS 101. 3 credit(s)

### **HCA 403 - Managed Care**

Overview of the coordinated care approach to health care. Includes risk/return theory applied to managed care rates, managed care in the public sector, major stakeholders in managed care, and health management issues. Present managed care environment critically examined in the context of past and present health policy and its impact on the health care delivery system. Prerequisite(s): HCA 175 or HCA 201; PSY 101, SOC 101 or ECON 102; MATH 124 or higher. 3 credit(s)

### **HCA 404 - Human Resources Management for Health Care Organizations**

Covers concepts and principles of human resources management in the context of the health care industry. Prerequisite(s): HCA 175. 3 credit(s)

### **HCA 452 - Health Politics and Policy**

Role of politics and policy-making as an external environmental impact on health care. Describes the political process in health care policy-making at all government levels. Interest group politics introduced in the context of the roles that these groups play in health care policy development and how these forces and health care organizations react to shape health care policy. Prerequisite(s): HIST 100, PSC 100, or PSC 101. 3 Note(s): This course is crosslisted with GEOL 652. Credit at the 600-level requires additional work. credit(s)

### **HCA 480 - Organization and Management of Long-Term Care Services**

Examination of health and social services for the elderly with emphasis on structure and function of the long-term care industry. Focuses on management of nursing home services. Includes analysis of reimbursement, regulatory, and other social, economic, political and legal factors affecting health and social services for the elderly. Note(s): This course is crosslisted with HCA 680. Credit at the 600-level requires additional work. 3 credit(s)

### **HCA 490 - Independent Study in Health Care Administration**

Supervised individual research on a topic related to health care administration selected by the student. Prerequisite(s): HCA major status and consent of instructor. May be repeated for a maximum of six credits. 1-6 credit(s)

### **HCA 491 - Special Topics in Health Care Administration**

Analysis of selected issues with special significance for health services administration. Prerequisite(s): HCA major status and consent of instructor. May be repeated for maximum of six credits. 1-6 credit(s)

### **HCA 493 - Health Care Administration Practicum**

Formerly Listed as HCA 400

Application of health care administration theories in a practice setting; sites approved by faculty. On-site supervision provided by preceptor and on-campus faculty. Written assignments and reports. Prerequisite(s): HCA 300, HCA 302, HCA 330, HCA 401, HCA 402, HCA 403, 2.5 GPA or higher. 3-6 credit(s)

## **Public Health**

### **PBH 165 - Personal Health Across the Lifespan**

Formerly Listed as HED 165.

Study of health principles as they apply to college and adult life, including mental health, sexuality, substance abuse, nutrition, health care, and environmental health. Increases understanding of underlying causes of, and cultural, social, and personal influences on these principles, and helps move students toward optimal physical, emotional, social and mental health. Note(s): (Satisfies UNLV general education social science requirement.) 3 credit(s)

**PBH 170 - Advanced First Aid**

Formerly Listed as HED 170.

Various emergency health problems and their management by the application of emergency first aid and cardiopulmonary resuscitation (CPR). No previous First-aid training is needed to enroll. 1-3 credit(s)

**PBH 200 - Multicultural Health**

Formerly Listed as HED 200.

Equips students with a working knowledge of the influence of socio-cultural factors upon health status and health-related behaviors. Health-related cultural components and myths related to a variety of ethnic and cultural groups explored. Note(s): Meets UNLV general education multicultural requirement. 3 credit(s)

**PBH 202 - Introduction to Epidemiology**

Formerly Listed as EAB 202.

(Same as HCA 202.) Provides an introduction to epidemiological techniques and strategies. The investigation of infectious disease outbreaks will be discussed and contemporary epidemics will be highlighted. Other foci will be uses, strengths and weaknesses of epidemiological study designs and the appropriate interpretation of results. Note(s): (Same as HCA 202). 3 credit(s)

**PBH 205 - Introduction to Public Health**

Formerly Listed as EOH 200.

Epidemics, chronic disease, workplace hazards, bioterrorism, pollution, second hand smoke, violence -- are all public health problems. This course will introduce students to the growing field of public health with a focused look at the core areas of environmental health, epidemiology, population health, and health promotion. Prerequisite(s): ENG 101 and ENG 102 or equivalent and first year seminar. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

**PBH 210 - Principles of Health Promotion**

Introduces students to the concepts of health promotion and the tools of health education. Topics will include social and behavioral determinants of health, goals of Healthy People 2020, levels of prevention, philosophies of health education, the relationship between health behavior, health education, and health promotion, and behavioral models in planning, implementing, and evaluating health promotion programs. 3 credit(s)

**PBH 225 - History of Public Health**

Surveys the history of public health from early societies through today. An emphasis will be placed on major diseases and public health issues that drove public health policy and the design of our current system. The course will introduce some of the pioneers of public health and development of the different sub-disciplines in the field. Prerequisite(s): PBH 205. 3 credit(s)

**PBH 275 - Injury Prevention and Control**

This course considers the causes and consequences of injury and challenges in injury research and prevention from a public health perspective. Injuries associated with transportation, violence, and the home and occupational environments are included. Prerequisite(s): PBH 205, PBH 210. 3 credit(s)

**PBH 280 - Experiential Learning in Public Health**

Formerly Listed as HED 280.

Introduction to public schools and community health agencies through field visits, volunteering, and in-class activities. 3 credit(s)

**PBH 305 - Consumer Health**

Formerly Listed as HED 305.

Analysis of factors which influence the selection of health products and services and of agencies concerned with the control of these products and services, and the evaluation of quackery and health misconceptions. 2 credit(s)

**PBH 320 - Public and Community Health**

Formerly Listed as HED 320.

Community health programs and theories: the need for them, problems and issues involved, and possible theoretical solutions. Emphasis on comprehensive and comparative health theories, and their use in governmental, voluntary, and public health environments. Prerequisite(s): PBH 165. 3 credit(s)

**PBH 330 - Global Health**

Introduces the principal health problems of the world's populations, and the major challenges to improving health at a global level. It is an interdisciplinary exploration of the factors that account for these health patterns, ranging from their physiological basis to their economic, social and political context. Topics include: infectious diseases, injuries, risk factors, health system performance, and the role of international agencies in shaping the landscape of global health policy. Throughout the course, a heavy emphasis is placed on what we know and how we know about global health problems. Prerequisite(s): PBH 205. Note(s): Satisfies International Requirement. 3 credit(s)

**PBH 340 - Built Environment and Health**

Examines the built environment and its impact on health and discuss sustainable solutions with an emphasis on public health. The US and other nations are facing increasingly lethal and costly epidemics of acute and chronic diseases related to land use and built environment decisions. While the hazards presented by air and water pollution are well recognized there is only now increasing recognition of the hazards presented by building and community designs that fail to recognize human health. Built environment and health issues range from motor vehicle trauma to obesity, cancer, heart disease and are based on economic, financial, insurance, housing and other factors. This class will focus on environmental health, health threats of the built environment and creating healthy built environments. Prerequisite(s): ENV 101, PBH 205. 3 credit(s)

**PBH 360 - Research Methods for Public Health**

Prerequisite(s): PBH 205, PBH 210. 3 credit(s)

**PBH 365 - Applied Biostatistics for Public Health**

This course provides an introduction to biostatistical concepts and reasoning and provides a survey of data and data types. Specific topics include tools for describing central tendency and variability in data; methods for performing inference on population means and proportions via sample data; statistical hypothesis testing and its application to group comparisons; issues of power and sample size in study designs; and random sample and other study types. While there are some formulae and computational elements to the course, the emphasis is on interpretation and concepts. Prerequisite(s): STAT 152, PBH 205. 3 credit(s)

**PBH 407 - Stress Management**

Formerly Listed as HED 407.

(Same as PED 407.) Explores such things as the meaning of stress, its effects, how it manifests itself physically, mistakes made in handling stress, and strategies for self-care in managing stress. Particular emphasis on the role of physical activity in controlling stress and the development of a controlled lifestyle that provides a balance between work and play and rest and exercise. Note(s): This course is crosslisted with HED 607. Credit at the 600-level requires additional work. 3 credit(s)

**PBH 422 - AIDS: An Interdisciplinary Perspective**

Formerly Listed as HED 422.

(Same as NURS 422 and SWK 422.) Interdisciplinary survey of various issues surrounding AIDS (Acquired Immune Deficiency Syndrome) as viewed from several conceptual, professional, and experimental disciplines. Designed to offer the most cognitive information about AIDS and provide an effective awareness of major issues related to the disease. Note(s): This course is crosslisted with HED 622. Credit at the 600-level requires additional work. 3 credit(s)

**PBH 424 - Teaching Elementary School Health**

Formerly Listed as HED 424.

Prepares elementary school teachers in the selection and instruction of health topics relevant to elementary school children. Emphasis on curriculum planning, innovative teaching methods, and the screening of common health problems of elementary school students. Prerequisite(s): Completion of the last 30 credits in uninterrupted residence at UNLV, passing scores on PRAXIS I series (Pre-Professional Skills Test). 3 credit(s)



**PBH 427 - Methods in Health Education**

Formerly Listed as HED 427.

Gives the prospective health educator a foundation in health education, including curriculum planning, teaching methods, and materials. Prerequisite(s): PPST scores RP 174, WP 172, MP 172 or PPST scores RC 321, WC 318 and HEDSCH major. 3 credit(s)

**PBH 429 - Education for Sexuality**

Formerly Listed as HED 429

Physical, mental-emotional, and social aspects of sexuality including sexual communication, relationships, gender, decision making and sexual pleasure and function. Structured to prepare individuals to conduct meaningful learning experiences in personal and family life sex education. Note(s): (Satisfies UNLV general education social science requirement.) 3 credit(s)

**PBJ 430 - Nutrition**

Formerly Listed as HED 430.

Practical application of nutrition principles to diet, exercise, and weight control, food selection, and the overall health of the individual. Nutritional needs throughout the life cycle emphasized. 3 credit(s)

**PBH 435 - Health Studies on Dangerous Drugs**

Formerly Listed as HED 435.

Analysis and evaluation of scientific data on effects of tobacco, alcohol, narcotics, and other dangerous drugs. Current problems relating to control of use and abuse of these drugs and the role of education in preventing substance abuse. Note(s): (Satisfies UNLV general education social science requirement.) 3 credit(s)

**PBH 440 - Program Planning and Evaluation**

Formerly Listed as HED 440.

Assists health educators in developing, implementing, and evaluating effective health promotion and wellness programs in the school, community, and work-site setting. Emphasis placed on establishing and marketing model lifestyle programs related to nutrition, exercise, stress reduction, and health/safety awareness. 3 credit(s)

**PBH 445 - Food Access and Health**

Provides students with the knowledge and skills to understand and navigate the built environment and industrial food complex with regard to the availability of healthy food and clean water. Topics will include the concept of food deserts, access to safe and healthy foods, obesity, malnutrition, and critical public health problems associated with food and water consumption. Sustainable solutions and strategies for working with community partners from city planners to health educators will be an important focus of the class content. Prerequisite(s): PBH 205, PBH 340. 3 credit(s)

**PBH 455 - Active Transport, Physical Activity and Health**

Examines the public health benefits of active transport and physical activity and concepts relevant to the built environment that facilitate or hinder participation in active transport and physical activity. Class topics will include: land use and travel behavior; the built environment and public health; transportation demand management; bicycle and pedestrian planning; design of bicycle and pedestrian facilities; retrofitting existing urban areas; safety issues for pedestrians and bicyclists; the transportation needs of special populations (elderly, children, disabled and immigrants); and innovative solutions. Prerequisite(s): PBH 205, PBH 340. 3 credit(s)

**PBH 460 - Health Ecology and Sustainability**

Examines ways human populations are using land, energy, food and water resources and the related impacts on global climates, ecosystem degradation and biodiversity. Provides students with an understanding of how human consumption and standards of living are exceeding the carrying capacity of the planet and how human and ecosystem health are affected locally and globally. Prerequisite(s): ENV 101, PBH 205, PBH 340. 3 credit(s)

**PBH 495 - Public Health Capstone**

This course is the culminating experience for Public Health majors. Students will have the choice of completing a community project with a local partner agency or conducting an independent research project. Prerequisite(s): Senior status, permission of instructor. 4 credit(s)

**PBH 497 - Independent Study in Public Health**

Formerly Listed as HED 499.

Readings or research to be carried out with the supervision of the instructor. Prerequisite(s): Consent of instructor and upper-division standing. May be repeated to a maximum of six credits. 1-6 credit(s)

**PBH 498 - Special Topics in Public Health**

Current topics in public health research, policy and practice. Prerequisite(s): PBH 205 ; PBH 210 ; PBH 225. May be repeated for a maximum of six credits. 3 credit(s)

# Honors College

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## ***Purpose and Focus***

The Honors College plays a unique role in UNLV's educational mission. It is a selective undergraduate college that offers an educational experience focusing on a solid liberal arts and sciences foundation, but in the context of a major research university with extensive academic and cultural opportunities. The Honors College is an educational partner with the "discipline" colleges of the University, in which Honors students pursue their academic majors. The combination of a central intellectual core in Honors, combined with advanced learning in a major field, helps fully develop graduates prepared for graduate education, professional school, and rewarding life careers. With a diverse student body, a strong curriculum taught in collaboration with UNLV's outstanding faculty, intense advising, research, service and leadership opportunities, scholarships and special residential arrangements, the Honors College offers an exceptional value in higher education. The College attracts excellent students from around the globe who together with faculty and staff form a unique learning community supporting educational achievement and excellence.

## ***Objectives of the Honors College***

The Honors College prepares students for academic, professional, and personal success after they graduate from UNLV. That preparation is achieved through one curriculum for University Honors and a separate curriculum for Research and Creative Honors that:

- Strengthens written and oral communication skills.
- Strengthens inquiry and critical-thinking ability.
- Develops abilities to analyze carefully and synthesize a broad range of information.
- Develops intellectual breadth and instills patterns of behavior that lead to lifelong learning.
- Prepares informed, engaged, ethical citizens that possess global and multicultural awareness.
- Allows students to create and produce original research and creative works in collaboration with faculty members.

## ***College Programs***

Students in the College enroll in the University Honors or Research and Creative Honors programs, or both. University Honors students complete the Honors College core curriculum, which replaces the core curriculum requirements of UNLV. Research and Creative Honors students complete a special research or creative project culminating in a senior thesis within their major disciplines. All Honors College students complete a series of interdisciplinary seminars taught by outstanding UNLV faculty members. These programs are described in more detail later in this section.

## ***Advising***

The college has extensive personal advising, with full-time academic advisors and other staff who support students' work toward their career goals.

## ***Pre-Professional Students and Students Planning Post-graduate Study***

Many students in the Honors College plan to attend professional or graduate schools. The Honors College focuses on preparing Honors College students to apply for various types of postgraduate studies, with our graduates attending many of the best professional and graduate schools in the country. Pre-professional advising in the College of Sciences, advising for pre-law studies through the College of Liberal Arts, and one-on-one advising are important components in developing student success.

## ***Admission to the College***

The Honors College Admissions Committee considers applications to the Honors College at any time, but applications for Fall submitted by the date of February 1 receive scholarship priority consideration. The goal of the College is to admit excellent, committed, and academically talented students who will succeed in and benefit from the College's rigorous curriculum and programs. Each candidate for admission has a unique record of achievement, in the context of his or her life experiences, and will therefore be individually evaluated. The College Admissions Committee considers application essays, high school transcripts (considering the difficulty of the courses taken, the nature of courses taken, and grade trends, among other elements), extracurricular activities, letters of recommendation, and college admission test scores. In some cases, candidates are asked to interview. These criteria are designed to select fine students who will enhance their demonstrated talents in the context of a diverse college of excellent peers. The College expects that applicants will display in their applications strong academic abilities, advanced writing skills, a critical intellect, and a commitment to excellence, leadership potential, and educational values.

First year applicants to the College must submit an essay, two letters of recommendation, high school and any college transcripts, ACT or SAT test scores, and a summary of activities in which they have participated. Applicants should know that a large number of applications are submitted to the College and the limited ability to accommodate new students make the admissions process competitive. Therefore, it is expected that students will provide their best work.

Transfer and current non-honors UNLV students are required to submit transcripts of all post-secondary work completed, a writing sample, and one letter of reference from a college or university faculty member. Transfer students are expected to have at least a 3.50 overall GPA from the institutions from which they are transferring. Non-honors UNLV students that apply are expected to have at least a 3.50 overall GPA from courses taken at UNLV.

## ***Honors College Scholarships***

The Honors College administers scholarships funded by special endowments to the College on a competitive basis, with priority consideration given to applications received by February 1. A number of scholarships are available to incoming freshmen, and others are made available to transfer and continuing students, depending on available funding. Nevada residents may be eligible for State

of Nevada Millennium Scholarships and can receive it along with scholarships from the Honors College. Additionally, UNLV has a number of academic scholarships for which honors students typically compete with great success. The university's top scholarships are independently awarded to students in the Honors College by the Financial Aid and Scholarship Office. Contact the Honors College for further information.

### ***Nationally and Internationally Competitive Scholarships***

Each year, students from across the United States apply for a select group of awards and fellowships to support their undergraduate and graduate efforts. Since there are few of these relative to the number of students applying, they are highly competitive, and therefore, very prestigious. Students who receive such scholarships demonstrate potential for great success in their postgraduate studies and subsequent careers.

The Honors College provides information about and advice on how to apply for major national and international scholarships and fellowships. Scholarships and fellowships the Honors College coordinates, among others, are the Rhodes, British Marshall, Mitchell, Truman, Goldwater, the National Science Foundation's Graduate Research Fellowship Program, Rotary Ambassadorial, Udall, Carnegie Junior Fellows, and Gates-Cambridge Scholarships. The Honors College is committed to working with new and continuing students to prepare them to apply for these scholarships at appropriate times during their college years. The college also provides this type of support for UNLV students who are not in the Honors College.

Other awards for which Honors College students are often competitive (e.g., Fulbright, Boren and Gilman) are administered by the International Programs Office at UNLV.

Interested students should contact the Honors College or visit the Honors College website for more information.

### ***Academic Policies***

Students must remain in good standing in the Honors College in order to retain their Honors College scholarships and to have the benefits of Honors College participation.

Students in good standing satisfy the following conditions:

- Enroll as a student at UNLV or participate in an official UNLV educational program (e.g., study abroad, student teaching, special internships) during each semester of the academic year from their admission until graduation, unless special arrangements are made with the Honors College.
- Complete an average of three Honors College credit hours during each semester they are registered as full-time students at UNLV, unless special arrangements are made with the Honors College.
- Maintain an overall GPA of 3.30. Maintain an Honors College GPA of 3.00

### ***Honors and Second Degree Seeking Students***

The Honors College allows former UNLV Honors students who are pursuing a second baccalaureate degree to receive University Honors on their second diploma if the good standing conditions for University Honors are met during the second degree.

Second degree seeking students will enjoy the benefits of other honors students, including use of the Honors Suite and priority registration, but will not be eligible for Honors College scholarships.

Department Honors may not be earned by second degree seeking students unless a new thesis in the new major is completed. Please see the Associate Dean of the Honors College for details.

Research and Creative Honors may not be earned by second degree seeking students unless a new thesis in the new major is completed. Please see the Associate Dean of the Honors College for details.

### ***Probation and Suspension***

Students' GPAs are evaluated at the end of every academic year to determine whether or not students are in good standing, as per the conditions stated above. Students who are not in good standing are placed on probation for one academic year or suspended from the Honors College. Below are conditions for suspension and probation. Any ***one*** of the following conditions results in ***suspension***:

- UNLV GPA below 2.00 at the end of freshman year (defined by their time of residence)
- UNLV GPA below 2.50 at the end of subsequent years (sophomore, junior, senior)
- Failure to complete an average of 3-credit hours of Honors College courses each semester (until all such courses are completed)
- Failure to raise UNLV GPA to at least 3.30 after a one year probation period
- Failure to raise Honors College GPA to at least 3.00 after a one year probation period

When suspended, students will lose priority registration and all other Honors College privileges. Students who have been suspended from the Honors College may petition the college for readmission. Any such petitions will be considered by the Honors College Admissions Committee and Dean of the College.

Any one of the following conditions results in probation:

- UNLV GPA below 3.30
- Honors College course GPA below 3.00

Probation lasts for one academic year and will be lifted at the end of the academic year if the student raises their UNLV GPA to at least a 3.30 and their Honors College course GPA to at least a 3.00.

### ***Repeating HON 400 Seminars***

The College does not recommend the repeat of HON 400 seminars because the intent of the curriculum is to encourage continuing exploration of diverse realms of knowledge and inquiry. Any Honors student wishing to repeat an HON 400 seminar as provided for in the university's academic policies must register for an offering of the same subject title as listed in the original and the current UNLV class schedule. This is, in any case, an unlikely probability as HON 400 seminars differ from year to year and many are only given once.

### ***Graduation Honors and Latin Honor Designations***

Students who successfully complete the Honors College programs graduate with honors if they:

- Complete the requirements for the University Honors and/or the Research and Creative Honors program, the requirements of their major, and applicable UNLV graduation requirements.
- Graduate with a final GPA of at least 3.30
- Graduate with a final Honors College GPA of at least 3.00, and
- Graduate with at least 60 credits earned at UNLV

The distinction University Honors and/or Research and Creative Honors will appear on final transcripts and diplomas.

Latin honors designations, Cum Laude, Magna cum Laude, and Summa cum Laude, which appear on final transcripts and diplomas, are awarded by the Honors College to college graduates as follows:

Students graduating from the University Honors program graduate Cum Laude if their final GPAs are 3.50 - 3.69; Magna cum Laude if their final GPAs are 3.70 or higher. (Note: The Honors College awards Summa cum Laude only to students who complete the requirements for Research and Creative Honors Scholar.) Students graduating from the Research and Creative Honors program graduate Cum Laude if their final GPAs are 3.30 - 3.49, Magna cum Laude if their final GPAs are 3.50 - 3.69, and Summa cum Laude if their final GPAs are 3.70 or higher and they receive a grade of A in HON 499.

**Honors Core Requirements:** Students admitted to the Honors College are admitted into University Honors, Research and Creative Honors, or both.

Students in University Honors are required to complete a minimum of 31 credits of HON-prefixed courses and to satisfy or test out of at least 6 credits of Foreign Language. Students entering University Honors directly from high school can satisfy most of the requirements in the honors core curriculum with honors courses and at least 6 credits of Foreign Language. Students who enroll after entering UNLV or who transfer to UNLV may apply some of their regular courses toward the honors core but must still meet the 31-credit HON requirement and the requirements in the core.

Students transferring from other honors programs or colleges can petition to have up to six honors credits earned at the previous institution applied towards the 31-credit requirement. Although advanced placement and international baccalaureate credits earned by an appropriate score as defined elsewhere in this catalog can be used to replace certain honors courses, those credits do not count toward the 31-credit HON minimum.

Students must fulfill the honors core requirements in order to become University Honors Scholars. The honors core curriculum replaces and satisfies the university's general education core requirements.

Honors Requirements .....Total: 50-57  
(see note 1)

All Honors College students must take the following nine classes:

Honors Composition.....3 credits

- HON 100 - Honors Rhetoric (must be taken during the first year)

Honors Persuasive Speaking ..... Credits: 3

- HON 101 - Honors Public Speaking (must be taken during the first year)

Honors OrientationCredits: 1

- HON 105 - Honors Orientation Seminar (must be taken during the first year)

Perspectives on the Western Experience..... Credits:6

- HON 110 - World Thought and Experience I

- HON 115 - World Thought and Experience II

HON 400 level classes, four separate classes..... Credits: 12

In addition, all UNLV students must satisfy the following:

Mathematics..... Credits: 3 or 4

an appropriate math course (MATH 124 or higher), or

- HON 124 - Honors College Algebra

- HON 127 - Honors College Precalculus II

- HON 181 - Honors Calculus I

- HON 182 - Honors Calculus II

Laboratory Science..... Credits: 4

- HON 230 - Scientific World View I

or

- HON 231 - Scientific World View II

or approved General Education sciences courses spelled out elsewhere in this catalogue

The Development of Science ..... Credits: 3

- HON 280 - The Development of Science

or approved General Education sciences courses spelled out elsewhere in this catalogue

US and Nevada Constitutions

Themes in American Civilization ..... Credits: 3

- HON 111 - Themes in American Civilization

- HON 112 - Exploring American Politics

or approved General Education sciences courses spelled out elsewhere in this catalogue

Social Science..... Credits: 3

- HON 201 - Honors General Psychology

- HON 202 - Honors Microeconomics

- HON 203 - Honors Macroeconomics

- HON 204 - Individual, Society, and Freedom

- HON 205 - Honors Introduction to Cultural Anthropology

or approved General Education social science courses spelled out elsewhere in this catalogue

Courses used to satisfy the Constitutions requirement may not be used to meet the Social Science requirement

Foreign Languages.....Credits: 0-12

(An Approved foreign language through the intermediate two level or two foreign languages, each through the elementary two level) (see note 2 below)

Fine Arts ..... Credits: 3

- HON 210H - Introduction to Performance

or any HON 420 seminar

or approved General Education Fine Arts courses spelled out elsewhere in this catalogue

Total Credits: ..... 50-57

Certain approved classes can replace an HON 400 level seminar.

Please see Honors College for more information.

**Research and Creative Honors:** Students in Research and Creative Honors take four 400 level seminars and complete a six-credit honors thesis/project during their senior year (HON 498 and HON 499). Many of the seminars can be used to satisfy general education core fine arts, international and multicultural requirements. The thesis/project may satisfy elective credits in the student's department.

### Notes:

1. Depending on the students major, they may be required to take HON 102 or PHIL 102 - 3 credits.
2. Students that test into 213 may take just 213 and 214 (6 credits); students that test into 214 may take just 214 (3 credits); students that test higher than 214 have satisfied Foreign Language and International requirements (0 credits).



## ***Honors Courses***

### **HON 100 - Honors Rhetoric**

Study and practice of writing at the college level with the primary emphasis on persuasive rhetoric. Requirements include library research paper. Must be completed by the end of the student's first year in the Honors College. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 101 - Honors Public Speaking**

Theory and performance work in extemporaneous and related persuasive speaking. Emphasis placed on developing critical thinking, research, and performance skills necessary for effective public speaking. Must be completed by the end of the student's first year in the Honors College. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 102 - Honors Critical Thinking**

Introduction to analysis and evaluation of arguments, construction of logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest. Prerequisite(s): Good standing in Honors College. 3 credit(s)

### **HON 105 - Honors Orientation Seminar**

Provides students in the Honors College with information about the college and the university. Major areas of focus are University and Honors College core requirements, campus resources, campus organizations, various college presentations, and study skills. Must be completed during the student's first semester in the Honors College. Prerequisite(s): Enrolled in the Honors College. Note(s): Fulfills First Year Seminar requirement. S/F grading only. 1 credit(s)

### **HON 106H - Introduction to Literary Analysis**

Study of lyric, dramatic, and narrative techniques including metaphor and narrative form and distinctions among the literary kinds. Readings from masterworks of western culture, works in western culture often overlooked, and works from other less often-studied cultures. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 110 - World Thought and Experience I**

Global survey of intellectual history as it relates to key concepts and ideas regarding the individual's place in society as sampled from different historical periods and across cultures. Prerequisite(s): Good standing in the Honors College. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

### **HON 111 - Themes in American Civilization**

Explores a very important question: How did Americans become what they are in the early twenty-first century. Traces the development of the American people within the broader framework of western civilization, using an analytical rather than factual approach. Satisfies both the United States and Nevada Constitutions requirements. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 112 - Exploring American Politics**

Exploration of unique features of the American political system. Particular attention paid to federalism and the role of states in the American polity using theoretical and analytical approaches. Satisfies both the United States and Nevada Constitutions requirements. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 115 - World Thought and Experience II**

Global survey of intellectual history as it relates to key concepts and ideas regarding the role of the collective in society as sampled from different historical periods and across cultures. Prerequisite(s): Good standing in the Honors College. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

### **HON 124 - Honors College Algebra**

In-depth coverage of equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; in-depth coverage of equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; binomial

theorem. Prerequisite(s): Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test or ALEKS test) or MATH 96 or equivalent. Note(s): Duplicate credits cannot be earned for HON124 and MATH 124, MATH 126 or 128. 3 credit(s)

### **HON 125 - Adventures in Data Analysis**

Introduction to the basic terminology and methods of both modern information technology and statistical methods, coupled with detailed examples from campus researchers and community practitioners of statistical applications, typically with reference to the computer technology required to support these analysis. Prerequisite(s): MATH 124 or HON 124 or higher with a minimum grade of C or better. 3 credit(s)

### **HON 127 - Honors College Precalculus II**

In-depth coverage of topics include circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra. Prerequisite(s): Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test, ALEKS test) or MATH 96 or equivalent. Note(s): Duplicate credits cannot be earned for HON124 and MATH 124, MATH 126 or 128. 3 credit(s)

### **HON 140H - Honors Mathematics I**

Topics include the study of functions at the intermediate level, analytic geometry, matrices, linear programming combinatorics, discrete probability, and other topics with applications. Problem solving emphasized. Prerequisite(s): Good standing in the Honors College and MATH 127 or equivalent in high school. 3 credit(s)

### **HON 141H - Honors Mathematics II**

Topics include differential and integral calculus maxima/minima problems, and other applications in probability and differential/difference equations. Problem solving emphasized. Prerequisite(s): HON 140H or equivalent. 3 credit(s)

### **HON 181 - Honors Calculus I**

In-depth coverage of differentiation and integration of algebraic and transcendental functions including computational and physical applications. Prerequisite(s): MATH 128 or equivalent and admission to the Honors College. 4 credit(s)

### **HON 182 - Honors Calculus II**

Integration, polynomial approximations, sequences, series, and introduction to differential equations including computational and physical applications. Prerequisite(s): Good standing in the Honors College and HON 181. 4 credit(s)

### **HON 190 - Honors Introduction to Philosophy**

Study of selected philosophers or basic problems involving imaginative and critical interpretations of experience and reality. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 200H - Topics in Social Science**

Variety of honors courses from different disciplines in the social sciences. 3 credit(s)

### **HON 201 - HonoHrs General Psychology**

Introduction to psychology, including introductory treatment of sensation-perception-cognition, physiological psychology, learning, personality, development, social psychology, abnormal psychology, assessment, psychological interventions, and the history of psychology. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

### **HON 202 - Honors Microeconomics**

Considers how prices guide and direct economic activity under both perfect and imperfect competition. Consumer theory, producer theory, management decision making and government policy formulation. Theoretical models and their assumptions. Solving problems using the methodologies developed. Prerequisite(s): MATH 124 or HON 124 or higher with a minimum grade of C or better. 3 credit(s)

**HON 203 - Honors Macroeconomics**

Study of the relationships and implications of the level of employment and production, interest rates, inflation rate, government budget deficit and national debt, trade deficit and trade indebtedness, international finance and exchange rates, long-run growth in productivity and living standards, and government policies that affect the macro economy. Prerequisite(s): HON 202 or ECON 102. 3 credit(s)

**HON 204 - Individual, Society, and Freedom**

Survey of the major approaches in the social sciences and humanities that deal with the relationship of the individual and the social milieu. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

**HON 205 - Honors Introduction to Cultural Anthropology**

Survey of the nature of culture with emphasis on the variation in human behavior in contemporary societies, including a review on the alternative theoretical frameworks used to explain and interpret human variation. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

**HON 210H - Introduction to Performance**

Focuses on the nature of performance in a variety of disciplines in the fine and performing arts, including the visual arts, music, dance, theatre, film, and architecture. Disciplines covered vary from semester to semester. Prerequisite(s): Good standing in the Honors College. Note(s): Meets the general education fine arts requirement. 3 credit(s)

**HON 230 - Scientific World View I**

Examination of the scientific world view, including scientific methodologies and paradigms. Emphasis on the origin and development of the physical universe. Prerequisite(s): Good standing in the Honors College. Lab/Lecture/Studio Hours: One three-hour laboratory per week or equivalent. 4 credit(s)

**HON 231 - Scientific World View II**

Continuation of HON 230, with emphasis on the earth and life. Prerequisite(s): Good standing in the Honors College and HON 230. Lab/Lecture/Studio Hours: One three-hour laboratory per week or equivalent. 4 credit(s)

**HON 280 - The Development of Science**

Historical survey of science, emphasizing major developments leading to the application of mathematics and experimentation to theories about the natural world. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

**HON 283H - Honors Calculus III**

Vectors, vector-valued functions, multivariable calculus, partial derivatives, and multiple integrals. Introduction to vector analysis (line and surface integrals, Green's and Stoke's Theorems, the Jacobian). Computational methods and physical applications emphasized. Prerequisite(s): Good standing in the Honors College and HON 182 or MATH 182. 4 credit(s)

**HON 299H - Honors Book Forum**

Faculty and students read selected works and interact in small discussion groups. Prerequisite(s): Good standing in the Honors College. May be repeated to a maximum of eight credits. 1 credit(s)

**HON 349H - Lessons in Leadership**

Concepts, theories and case studies concerning the leadership of people in modern organizations as learned from lessons in popular writing, popular cinema, and history. Participation and observation and analyzing of leadership behavior. Prerequisite(s): Good standing in the Honors College. 3 credit(s)

**HON 395 - Honors Internship**

Students gain off-campus experience designed to familiarize them with different careers. Mentors are chosen from the business, medical, professional, and technical community in Las Vegas. Before registering for this course, students must have a proposal outlining the objectives of the mentorship signed by the mentor and student, and approved by the College. Prerequisite(s): Good standing in the Honors College. May be repeated to a maximum of three credits. Note(s): S/F grading only. 1-3 credit(s)

**HON 410 - Special Topics Seminars**

Opportunity for students and faculty to be innovative and explore a wide range of topics not covered by regular honors courses. Prerequisite(s): Good standing in the Honors College. May be repeated to a maximum of thirty credits with different topics. 3 credit(s)

**HON 420 - Special Topics Seminars0-Fine Arts**

Seminar with a special topic approved to satisfy the UNLV Fine Arts Requirement. May be repeated to a maximum of thirty credits. 3 credit(s)

**HON 440 - Special Topics Seminars- Multicultural**

Seminar with a special topic approved to satisfy the UNLV Multicultural Requirement. Prerequisite(s): Good standing in the honors college. May be repeated to a maximum of thirty credits. Note(s): Satisfies Multicultural Requirements. 3 credit(s)

**HON 493 - Self-Directed Study**

Students submit a proposal to the Honors College listing tentative readings and outlining the objectives of the self-directed study. They keep a weekly journal and are encouraged to let the focus of the study evolve in response to the earlier readings and discussions with a faculty mentor. Prerequisite(s): Junior or senior in good standing in the Honors College. May be repeated to a maximum of six credits. Note(s): S/F grading only. 3 credit(s)

**HON 498H - Honors Thesis/Project I**

Required senior thesis/project for students in Research and Creative Honors. Student works under the supervision of a faculty mentor and must have an approved Proposal Honors Project form on file with the Honors College before registering. Prerequisite(s): Upper-division standing in the Honors College. Note(s): S/F grading only. 1-3 credit(s)

**HON 499 - Honors Thesis/Project II**

Required senior thesis/project for students in Research and Creative Honors. Student works under the supervision of a faculty mentor. Students are required to give a presentation based on their thesis/project to an appropriate audience at UNLV. Prerequisite(s): Honors student, junior or senior standing, HON 498. 3 credit(s)

# William F. Harrah

## College of Hotel Administration

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### ***Purpose and Focus***

The William F. Harrah College of Hotel Administration provides students with one of the world's best programs in the preparation of students for the global hospitality and leisure services profession. Strong classroom academics are combined with focused internship and mentoring opportunities to provide a strong, applied educational foundation. In addition to the college facilities in Frank and Estella Beam Hall, the new Stan Fulton Building houses the International Gaming Institute. The city of Las Vegas offers students the "World's Greatest Laboratory" of opportunities to acquire professional experience in the hospitality and leisure services field.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
Professional Golfers' Association of America

### ***Majors, and Undergraduate Degrees***

College of Hotel Administration  
Hospitality Management — Bachelor of Science  
    Gaming Management Concentration  
    Meetings and Events Management Concentration  
    Professional Golf Management Concentration  
    Restaurant Management Concentration

### ***Graduate Degree Programs***

Hospitality Administration — Executive Master of Hospitality  
    Administration (Online Program)  
Hotel Administration — Master of Science  
Hospitality Administration — Doctor of Philosophy Admission to  
    the College

### ***Admission to the College***

**Admissions:** New students who meet the university's admission requirements may apply and be admitted directly to a major within the College of Hotel Administration. Continuing students may request admission to the college through the change of major process by contacting the Office for Student Advising and making an appointment to meet with an academic advisor. Minimum GPA for change of major is 2.00.

International students must demonstrate English proficiency by providing a test score from the TOEFL, IELTS, or the institutional Michigan Test. Scores must meet the minimum standards listed below.

TOEFL — Overall score of 80 or higher with a minimum Writing score of 20 on the IBT version.

IELTS — Overall band of 6.5 with Writing score of 6.

UNLV Institutional Michigan Test score of 81 percent, with a Writing score of 40.

**Transfer Policies:** The university determines courses that will be accepted for credit. Some credits accepted by the university may not apply to the college's degrees specifically and, therefore, may not contribute to the student's academic progress.

No fewer than 30 credits in hotel administration course work must be earned at UNLV, regardless of credits transferred.

### ***College Policies***

**Academic Policies:** All required courses must be taken for a grade; the satisfactory/fail grading option may not be used except for courses that are only offered pass/fail. All college major and concentration required courses must be completed with a grade of C (2.00) or better.

Although the college offers summer courses, students should not rely on summer courses to meet graduation requirements.

Credits transferred from a two-year program (junior or community college credits) cannot be used to satisfy upper-division core requirements.

Failure to maintain a UNLV GPA of 2.00 will first result in probation. If the GPA is not elevated to 2.00 by the following full semester (spring/fall), the student will be suspended from the college for one year.

Failure to demonstrate satisfactory progress toward a degree in the College of Hotel Administration will cause a student to be placed on college probation or suspension.

**Probation/Suspension Policy:** Reasons for college suspension can include, but are not necessarily limited to, the following: overall UNLV GPA below 2.00, two or more semesters of work on academic probation, failure to take courses applicable to a degree in the College of Hotel Administration for two or more terms, academic misconduct, or failure to meet an academic contract.

Suspended students must complete a reinstatement petition to re-enter, regardless of the interval since last attendance, which will be reviewed by the College Academic Standards Committee. The committee will determine if the student is to be reinstated.

The college will not consider an application for readmission if the student has been suspended more than one time.

Appeals for administrative relief can be made to the dean of the College of Hotel Administration, to the University Academic Standards Committee, and to the provost, in succession.

Students should seek advising prior to enrolling in classes outside of UNLV while on suspension to ensure adherence to policies concerning residence sequence, upper-division credits, and transferability of courses.

All academic standards, probation, and suspension policies are available in the Office for Student Advising.

**College Core Requirements:** A candidate for a Bachelor of Science degree must earn a minimum of 120 credits in required and elective courses. Half of the total credits must be earned at a four-year institution.

Credits transferred from a two-year program (junior or community college credits) cannot be used to satisfy upper-division core requirements.

**Pre-Major Designation:** A student may not enroll in upper-division required courses (300–400 level) until the completion of the pre-major in the College of Hotel Administration. All exceptions to this policy must be approved by the Office for Student Advising.

All students entering the College of Hotel Administration will be designated as a pre-major until they have completed the pre-major core and achieved an overall 2.00 GPA. Transfer students will also be designated as a pre-major regardless of the number of transfer credits until an evaluation of their transcripts is completed. Upon completion of the pre-major core, students must apply for acceptance to the advanced major by submitting an application to the Office for Student Advising. Students who have completed all but two of the courses will be permitted to enroll in upper-division required courses provided they are enrolled in the remaining two pre-major core courses during the same semester. Advisor approval is required. Application for the advanced major is still required.

The pre-major core for the Hotel Administration degree includes: ENG 101, ENG 102, MATH 124, TCA 221, ECON 261, HMD 101, FAB 101, FAB 159.

**Work Experience Requirement:** In addition to general academic requirements, the Harrah College of Hotel Administration requires 1,000 hours of acceptable employment in the hospitality industry. This work experience will be evaluated qualitatively as well as quantitatively and must be consistent with the student's major. See major requirements for additional information. The work experience requirement may be met during the school year or in summers. International students must go to the Office of International Students and Scholars to verify employment eligibility.

The work experience requirement differs from the college's internship requirement. The work experience requirement requires the student to find a paid job but carries no academic credit and may be earned anywhere. The internship requirement is an approved and supervised experience supervised by the college faculty and valued at three academic credits.

## **Advisement**

All students are advised through the college's Office for Student Advising throughout their academic career as needed.

Policies concerning application for graduation and academic standards are available in the college's Office for Student Advising.

## **Specialized Programs**

**Second Degree Program:** Special provisions for an accelerated second baccalaureate degree have been developed for applicants who already hold a baccalaureate degree in another unrelated discipline. Candidates must apply as an undergraduate transfer student and meet all university admissions requirements. Program details are available in the college's Office for Student Advising.

## **Major**

### **Hospitality Management Major (BS)**

The Hospitality Management Major offers a broad educational approach to a career in the hospitality industry. Its varied course of study prepares students with both the management theories and operational competencies necessary to enter any segment of the industry upon graduation. In addition to the university's general education requirements, students take classes specific to the industry including an introduction to hospitality, human resources

management, organizational behavior, facilities management, hospitality law and a course in leadership, management and ethics. Students also study food sanitation, food service operations, cost control, career development, financial and managerial accounting, financial management, hospitality service management, and operations and strategic management. The inclusion of 22 credits of elective courses allows the student to customize their educational experience based on their personal interests through the selection of the elective topics of their choice. Although it is not required, students may elect to declare a concentration to provide an opportunity to focus their elective credits toward a specific area of study.

Rounding out this curriculum are internships, two senior-level capstone classes that will have students using all of their learned managerial and leadership skills, and actual work experience in the hospitality industry. This approach offers prospective employers a well-rounded graduate who understands day-to-day operations, has the ability to do strategic planning, and can adapt to a multitude of positions. With this expansive knowledge base, students will be ready to look at numerous career opportunities upon graduation.

### **Hospitality Management Major - Bachelor of Science (BS)**

Please see the UNLV College of Hotel Administration, Hospitality Management Department web page at <http://www.unlv.edu/hotel/undergrad-studies/fall-2012> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Hotel Administration Advising Center at <http://www.unlv.edu/hotel/advising>.

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

## **Learning Outcomes**

Upon completion of the B.S. program in Hospitality Management, students should be able to:

1. Identify career goals and effective strategies for achieving them
  - Develop effective interview techniques
  - Articulate your personal elevator speech about your career
2. Communicate effectively in written, spoken, visual and digital modes
  - To different audiences, e.g. industry leaders, employers, faculty and fellow students
  - Human resources
3. Manage all forms of capital (e.g., human, financial) in an ethical and sustainable way
4. Evaluate changing legal issues based on existing legal principles
5. Resolve problems (simple to complex) considering ethical and legal ramifications and risk.
6. Determine the impact of business transactions on financial statements
7. Use historical financial information to prepare operating budgets
8. Develop effective marketing strategies to meet changing customer needs and expectations
9. Design sustainable marketing mix activities to maximize marketing goals
10. Value continuous leadership development
11. Develop a passion for HR.



## University Graduation Requirements

- Please see Graduation Policies for complete information

Hospitality Management Degree Requirements ... Total: 120 Credits

The Hospitality Management Major offers a broad educational approach to a career in the hospitality industry. Its varied course of study prepares students with both the management theories and operational competencies necessary to enter any segment of the industry upon graduation. In addition to the university's general education requirements, students take classes specific to the industry including an introduction to hospitality, human resources management, organizational behavior, facilities management, hospitality law and a course in leadership, management and ethics. Students also study food sanitation, food service operations, cost control, career development, financial and managerial accounting, financial management, hospitality service management, and operations and strategic management.

The inclusion of 22 credits of elective courses allows the student to customize their educational experience based on their personal interests through the selection of the elective topics of their choice. Although it is not required, students may elect to declare a concentration to provide an opportunity to focus their elective credits toward a specific area of study.

Rounding out this curriculum is an internship, two senior-level capstone classes that will have students using all of their learned managerial and leadership skills, and actual work experience in the hospitality industry. This approach offers prospective employers a well-rounded graduate who understands day-to-day operations, has the ability to do strategic planning, and can adapt to a multitude of positions. With this expansive knowledge base, students will be ready to look at numerous career opportunities upon graduation.

Pre-major core must be completed prior to enrolling in upper division degree requirements. See Pre-Major Designation section in the catalog or contact the College of Hotel Administration Advising Center.

### General Education Requirements .... Subtotal: 37-38 Credits

First Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second Year Seminar ..... Credits: 3

- Any approved Second Year Seminar (ENG 231 or ENG 232 fulfills this requirement)
- ENG 231 - World Literature I

or

- ENG 232 - World Literature II

Constitutions ..... Credits: 4

- HIST 100 - Historical Issues and Contemporary Society

or

- PSC 101 - Introduction to American Politics

Mathematics ..... Credits: 3

- MATH 124 - College Algebra

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts ..... Credits 9

- COM 101 - Oral Communication
- One courses from different Humanities area - 3 credits
- One course in Fine Arts - 3 credits

- Social Science:

- Automatically satisfied by Major requirements

- Life and Physical Sciences and

Analytical Thinking ..... Credits: 10

- ENV 101 - Introduction to Environmental Science
- PHIL 102 - Critical Thinking and Reasoning
- One course from Life and Physical Sciences category with a lab

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

## Major Degree Requirements

BS in Hospitality Management ..... Subtotal: 61 Credits

Business Core Requirements ..... Credits: 3

- ECON 261 - Principles of Statistics I

Hotel College Core Requirements ..... Credits: 18

- HMD 101 - Introduction to the Hospitality Industry
- TCA 221 - Hospitality Accounting I
- HMD 307 - Hospitality Leadership, Management, & Ethics
- HMD 259 - Human Resources Management in the Hospitality Industry
- TCA 380 - Hospitality Marketing I
- HMD 401 - Hospitality Law

Functional Area Requirements ..... Credits: 31

- FAB 101 - Food Service Sanitation I
- FAB 159 - Food Service Operations Fundamentals
- TCA 201 - Hospitality Career Development
- HMD 202 - Housekeeping Operations

or

- HMD 203 - Front-Office Operations

or

- HMD 226 - Industry Computer Applications for Hospitality & Tourism
- HMD 253 - Hospitality Services Management
- TCA 321 - Hospitality Accounting II
- HMD 395/395D - Facilities Management
- HMD 402 - Employment Law in the Hospitality Industry
- HMD 407 - Organizational Behavior Applied to the Service Industries
- FAB 461 - Food and Beverage Cost Control
- TCA 420 - Hospitality Financial Management

Capstone Requirements ..... Credits: 6

- HMD 454 - Strategic Management in Hospitality
- FAB 467 - Restaurant Management and Operations

Internship Requirement ..... Credits: 3

- HMD 251 - Hospitality Externship

or

- HMD 450 - Hospitality Internship

or

- FAB 450 - Food and Beverage Internship I

or

- FAB 451 - Food and Beverage Internship II

or

- TCA 450 - Tourism & Convention Internship

or

- GAM 490 - Internship in Gaming Operations

Work Experience (see note 1 below)

Hospitality Management Electives ..... Credits: 15  
(of which 9 must be upper division (300/400 level)

Electives..... Credits: 6-7

Total Credits: ..... 120

### Note

1. All students must complete 1,000 hours of work experience in the hospitality industry. It is highly recommended that a portion of these hours be dedicated to the student's concentration (if applicable), to facilitate entry into that segment of the industry after graduation.

## Areas of Concentration

Students who wish to specialize in a particular segment of the hospitality industry can declare a concentration to focus their studies in that field. Concentration courses replace the Hotel College electives in the Hospitality Management Major and must be completed with a grade of C or better. An internship and work experience specific to the area of concentration, is strongly advised to enhance the student's career opportunities. Four concentrations are available for interested students.

### Gaming Management Concentration

The gaming management concentration is targeted not only to those who will work in actual casino operations but also to students who are thinking about careers in casino accounting, as professional staff in gaming regulations and control, and as suppliers who will serve the casino industry.

Gaming Management Concentration Core ..... Credits: 15

- GAM 334 - Gaming Management I
- GAM 340 - Gaming Device Management
- GAM 437 - Casino Industry Regulation
- GAM 440 - Casino Marketing
- GAM 470 - Quantitative Methods and Applications in Casino Gaming

### Meetings and Events Concentration

The meetings and events management concentration encompasses meetings, conventions, tradeshow, and special events. It is a specialized curriculum that includes everything from site selection and marketing to budgets and logistics. The meetings and events industry is an exciting, fast-paced field that allows and encourages creativity and innovation.

Meetings and Events Concentration Core..... Credits: 15

- TCA 110 - Introduction to the Convention Industry
- TCA 383 - Meeting Planning
- TCA 488 - Special Events Management
- TCA 490 - Festival and Event Management
- Any TCA Elective

### Restaurant Management Concentration

The restaurant management concentration is a course of study ideal for those students interested in all aspects of restaurant and foodservice management. The focus will be on food production, service, marketing, supervision, and financial management. With over 15 million jobs available in the restaurant industry, this concentration will prepare you for a career in the fastest growing area of hospitality. Restaurant Management Concentration ..... Credits: 15

- FAB 160 - Hospitality Purchasing
- FAB 333 - Culture and Cuisine
- FAB 370 - Nutrition in Food Service
- FAB Upper Division (300/400) Elective
- FAB Upper Division (300/400) Elective

### Professional Golf Management Concentration

The PGA golf management concentration provides students with the academic knowledge and experience necessary for a career in the golf industry. The PGA concentration consists of 23 credits within the hospitality management major. Sixteen months of internship at approved golf facilities and successful completion of the PGA's player's ability test and qualifying level, level 1, 2, and 3 examinations are required. Completing the hospitality management major with the PGA golf management concentration qualifies students with U.S. citizenship membership into the PGA upon receiving a background check and eligible employment in the golf industry. Concentration fees include extensive golf course playing and practice privileges and access to the PGA knowledge center. Admission to this concentration requires admission to the university plus a golf handicap of 12 or less verified by the United States Golf Association, Professional Golfers' Association of America, PGA golf professional, high school golf coach, or successful completion of the PGA playing-ability test.

Professional Golf Management Concentration ..... Credits: 23

- PGM 102 - Introduction to Player Development
- PGA Playing Ability Test
- PGM 110 - Introduction to Golf Operations
- PGM 111 - Golf Operations II
- PGM 162 - PGM Internship I
- PGM 201 - PGA PGM Level 1
- PGM 202 - PGA PGM Level 2
- PGM 262 - PGM Internship II
- PGM 301 - PGA PGM Level 2 continued
- PGM 302 - PGA PGM Level 3
- PGM 362 - PGM Internship III
- PGM 401 - PGA PGM Level 3 continued
- PGM 462 - PGM Internship IV

## ***Bachelor of Science in Hotel Administration***

### **FAB 101 - Food Service Sanitation I**

Basic principles of food service sanitation and safety. Meets standards for National Sanitation Certification. 1 credit(s)

### **FAB 159 - Food Service Operations Fundamentals**

Basic principles of food production. Primary focus on culinary techniques, culinary, and kitchen operations. Prerequisite(s): FAB 101. Note(s): Lab fee required. 3 credit(s)

### **FAB 160 - Hospitality Purchasing**

Basic principles of purchasing food, beverage, equipment, contract services, and supplies. Primary focus on product identification, supplier selection, and the ordering, receiving, storing, and issuing process. Prerequisite(s): FAB 159. 3 credit(s)

### **FAB 190 - Bartending**

Basic class devoted to developing the skills necessary to function as a bartender in a hospitality operation. Hands-on course covering mixology of liquors and handling of all types of alcoholic beverages. Must be 21. Note(s): Lab fee required. 3 credit(s)

### **FAB 245 - Hotel and Culinary Tour**

Classroom lectures complement on-site experiences at famous hotels, restaurants, and vineyards. Additional presentations familiarize the student with the host country's culture as well as its innkeeping and tourism. 1-3 credit(s)

### **FAB 290 - Bar Operations**

Provides students with basic knowledge of managing and operating a bar. It will train them in a real bar setting with actual alcoholic beverages. Students will mix drinks and create new alcoholic and non-alcoholic beverage recipes. Students will understand the tasks and responsibilities of a bar manager. 21 years of age. Students may only receive credit for FAB 190 OR FAB 290, not both. Prerequisite(s): HMD 101 and FAB 101. 3 credit(s)

### **FAB 302 - On-Site Services Management**

Basic principles of managing on-site services. Primary focus on food service and vending operations in health care facilities, schools, convention centers, parks, stadiums, and other related industry segments. Prerequisite(s): FAB 160. 3 credit(s)

### **FAB 333 - Culture and Cuisine**

Explores foods and food ways of various cultural/ethnic groups. Considers origin and migration of foods and customs throughout the world. Studies food's relationship to cultural groups, geographical location, social practices and economic well-being. Analyzes impact of multiple cultures on foods, food preparation, and food ways in the U.S. Prerequisite(s): ENG 101; three credits of social science core requirements. Note(s): Satisfies Multicultural Requirement. Lab fee required. 3 credit(s)

### **FAB 361 - Principles of Food Science**

Basic scientific principles underlying the production of food products in commercial kitchens. Uses lecture, demonstrations, and lab exercises to present the physical and chemical properties of food. Discusses the relationship of these properties to food preparation and recipe development. Prerequisite(s): FAB 101 and FAB 159, and NUTR 121 or NUTR 223. Note(s): Lab fee required. 3 credit(s)

### **FAB 362 - Distilled Spirits and Liqueurs**

Distilled spirits manufacturing, quality criteria, and sensory standards. Prerequisite(s): HMD 101. Must be 21 years of age. Note(s): Lab fee required. 3 credit(s)

### **FAB 363 - Inflight Food Service Management**

Inflight food service operations and the logistics involved in successfully meeting the needs of airlines for food services. Discusses industry developments, equipment, products, inflight kitchen structures and operations, contracting and communicating with airlines, and other operational concerns and constraints. Prerequisite(s): FAB 160. 3 credit(s)

### **FAB 364 - New World Wines**

New World wines manufacturing, quality criteria, and sensory standards. Focus on wines from the U.S., Canada, Central America, South America, Mexico, Australia, and New Zealand. Prerequisite(s): HDM 101. Must be 21 years of age. Note(s): Lab fee required. 3 credit(s)

### **FAB 365 - Old World Wines**

Old World wines manufacturing, quality criteria, and sensory standards. Focus on wines from Europe and the Mediterranean. Prerequisite(s): HMD 101. Must be 21 years of age. Note(s): Lab fee required. 3 credit(s)

### **FAB 366 - Special Topics in Food Service Management**

Series of special courses designed by faculty from academe and industry. Uses lecture, demonstration, and lab exercises to present topics in a) Various cuisines and culinary styles, b) Back-of-the-house operations and management, c) Front-of-the-house operations and management, d) Field experience, e) Property management or engineering, f) Finance, g) Specialized food production, h) Food science. Prerequisite(s): FAB 160. May be repeated for a maximum of six credits. Note(s): Lab fee required. 3 credit(s)

### **FAB 367 - Beers**

Basic principles of beer production. Primary focus on manufacturing, quality criteria, beer styles, and sensory standards. Evaluation by tasting is an integral part of the course. Prerequisite(s): HMD 101. Must be 21 years of age. Note(s): Lab fee required. 3 credit(s)

### **FAB 368 - Concessions Operations Management**

Management of food and beverage operations within the recreation industry, considering concessions operations in a variety of venues. Emphasizes logistical, inventory, financial, cash control, and human resource considerations inherent to successful concessions operations. Includes classroom work and hands-on experience. Prerequisite(s): FAB 160. 3 credit(s)

### **FAB 370 - Nutrition in Food Service**

Enables food service professionals to plan menus for specific nutrition-related conditions and to answer questions regarding current nutrition issues. Covers consumption trends, nutrient needs of general and specific populations, relationships between nutrition, health and diseases, and menu/recipe modifications. Prerequisite(s): FAB 101 and FAB 159. 3 credit(s)

### **FAB 372 - UNLVino Management**

This practical experience-based course is designed to facilitate the development of management and leadership skills associated with planning and implementing a major special event. Students will be assigned to a management team; marketing, events, or culinary and will participate fully in the research, marketing, execution, and evaluation of UNLVino. Prerequisite(s): FAB 101 and FAB 159 and HMD 101 and HMD 259. Must be 21 or older. May be repeated to a maximum of six credits. 3 credit(s)

### **FAB 373 - Chef Artist Event Management**

This event management class provides students with a practical opportunity to use the skills they have learned in the classroom in a professional setting. The Chef Artist Event Management class will allow students to plan, organize, market, staff, and manage a reception and dinner event featuring a celebrity chef. Prerequisite(s): FAB 101 and FAB 159 and HMD 253 and HMD 259. May be repeated to a maximum of six credits. 3 credit(s)

### **FAB 450 - Food and Beverage Internship I**

On-site internship in a commercial or noncommercial food and beverage operation. Seminars and/or reports required. Corequisites Culinary arts, beverage management, foodservice management, hospitality management majors only. Prerequisite(s): TCA 201. 3 credit(s)

### **FAB 451 - Food and Beverage Internship II**

Second or unique internship in a commercial or noncommercial food and beverage operation. Corequisites Culinary arts, beverage management, foodservice management, hospitality management majors only. Prerequisite(s): TCA 201. Note(s): Lab fee required. S/F grading only. 3 credit(s)

**FAB 460 - Facilities Planning and Equipment**

Planning of food service facilities with emphasis on human engineering, layout, design, selection of equipment, and management planning decisions. Prerequisite(s): FAB 160. 3 credit(s)

**FAB 461 - Food and Beverage Cost Control**

Duties and responsibilities of the manager for budgeting and forecasting, cost, and developing and maintaining controls in restaurant, catering and all types of food and beverage operations. Prerequisite(s): FAB 101, FAB 159, TCA 221, HMD 101 or GAM 225, ENG 102 or ENG 114, MATH 124 or higher. Admission to College of Hotel. 3 credit(s)

**FAB 465 - Beverage Management**

Basic principles of beverage management and bar operations. Primary focus on beverage products, purchasing, inventory management, bar set-up, bar layout and design, production, service, and cash handling. Prerequisite(s): FAB 101, FAB 159, HMD 253, 21 years of age, matriculated students only. Note(s): Lab fee required. 3 credit(s)

**FAB 467 - Restaurant Management and Operations**

Application of established standards, techniques, and practices of restaurant management and operations. Students participate in the management, sales, production, and service of meals in varied environments including fine dining, casual table service, and catering. Prerequisite(s): FAB 101, FAB 159, FAB 461, HMD 253, HMD 259, TCA 380, majors only. Lab/Lecture/Studio Hours Minimum of six hours of laboratory per week. Note(s): Lab fee required. 3 credit(s)

**FAB 470 - Global Food and Nutrition Issues**

All citizens of the world have a vested interest in how food is produced, distributed, processed, prepared and regulated. Provides students with a look at the governmental, industrial, environmental, and individual consumer factors that influence the types and quality of foods available in the world marketplace. Prerequisite(s): ENG 102 and ENG 231 or ENG 232, junior standing. Note(s): Satisfies International Requirement. 3 credit(s)

**FAB 474 - Independent Study in Food Service Management**

Research in an area of concern to the management of food service operations. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**GAM 225 - Introduction to Gaming Management**

Overview of the casino; topics include the economics of the casino, its interface with the hotel, organizations, and terminology. 3 credit(s)

**GAM 334 - Gaming Management I**

Review of gaming industry history as it applies to modern management philosophy and regulation. Examination of hotel casino cash flow sources, mechanics of production, slot operations analysis, game analysis, casino marketing analysis, problem gambling, and a general overview of casino management. Basic statistical applications related to casino management. Prerequisite(s): GAM 225 or HMD 101. 3 credit(s)

**GAM 339 - Protection of Casino Table Games**

In-depth examination of the various methods used to protect casino table games. Reviews blackjack, baccarat, poker, craps, and roulette, examining possible ways that cheating can occur. Methods of detection and various internal controls used by the casino discussed. Prerequisite(s): GAM 334. 3 credit(s)

**GAM 340 - Gaming Device Management**

Study of casino slot management and route operation management procedures, with emphasis on equipment technology and maintenance (ticket/in-ticket/out, server based gaming, tracking systems, Title 31, handheld gaming devices, and electronic games), controls, layout, and customer service. Includes history of equipment development, future outlook, and career opportunities. Prerequisite(s): GAM 225 or HMD 101. 3 credit(s)

**GAM 342 - Problem Gambling**

Learn about the widespread popularity of gambling behavior and the dynamics of the legal, moral, and medical aspects of "deviant" acts. Interprets problem gambling from a variety of disciplinary perspectives. Future challenges faced by problem gamblers and the gaming industry. Prerequisite(s): GAM 225. 3 credit(s)

**GAM 426 - Accounting for the Gaming Industry**

Detailed examination of accounting systems, procedure, and controls peculiar to casinos required by both management and government for internal auditing, financial reporting, and governmental control. Prerequisite(s): TCA 221. 3 credit(s)

**GAM 434 - Gaming Management II**

Second course in casino management and operations. Prerequisite(s): GAM 334. 3 credit(s)

**GAM 437 - Casino Industry Regulation**

Nevada's system of gaming regulation and control provides a model for studying the history, purpose, politics, methods, and limitations — both practical and legal — of governmental regulation and control of what is now an international gaming industry. Security, surveillance, government policy, and technical and casino operational guidelines will be addressed. Prerequisite(s): GAM 334 or HMD 401. 3 credit(s)

**GAM 439 - Seminar in Casino Management**

Special topics in casino problems. Course open to experienced casino personnel. Prerequisite(s): GAM 334. 3 credit(s)

**GAM 440 - Casino Marketing**

Common/popular casino marketing tactics are examined, followed by an overview of slot club structures and related database marketing activities. Match-play coupons, dead chip (a.k.a. rolling programs), and loss discounting are all closely examined. Casino hosting, the role of nongaming amenities, and repeater-market gaming promotions are also covered. Prerequisite(s): GAM 225 or GAM 334. 3 credit(s)

**GAM 442 - Sociology of Gambling**

Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. Prerequisite(s): SOC 101 or HMD 101 or PSY 101 or GAM 225. Note(s): Satisfies Multicultural and Social Science Requirement. Same as SOC 442. 3 credit(s)

**GAM 470 - Quantitative Methods and Applications in Casino Gaming**

Develops the techniques and methods for computing the probabilities, expected values, and house percentages of casino games and analyzes the effects of changes in playing rules and payoff odds. Prerequisite(s): ECON 261 or STAT 152. 3 credit(s)

**GAM 474 - Independent Study in Gaming Management**

Research in an area of concern to the management of gaming operations. Prerequisite(s): GAM 334, senior standing, good academic standing, and graduation application on file. May be repeated to a maximum of six credits. 3 credit(s)

**GAM 490 - Internship in Gaming Operations**

A field-based experience for students to focus on a possible career path. Designed to expand knowledge of the gaming industry by rotating through various casino departments; focus on specific areas in casino operations such as marketing, table games, cage, slots, audit; regulatory/legal entities, gaming device manufacturing companies, etc. Prerequisite(s): GAM 334, senior standing, good academic standing, and graduation application on file. 3 credit(s)

**GAM 495 - Special Topics in Gaming Operations**

Series of special courses designed by faculty from academe and industry. Topics cover a wide spectrum of current gaming issues. Prerequisite(s): GAM 334, sophomore, junior or senior standing. May be repeated up to a maximum of six credits; nine on petition. 3 credit(s)



**HMD 101 - Introduction to the Hospitality Industry**

Survey of the history, likely direction, and dynamics of the hospitality industry from the perspective of the global economy, with emphasis on the wide variety of career opportunities. 3 credit(s)

**HMD 102 - Introduction to Hotel Management**

Organization and operation of the hospitality industry. Must be taken in lieu of HMD 101 during the first semester for students enrolled in a second baccalaureate program or for students holding junior-senior status as a result of transfer. Prerequisite(s): Junior standing. Not open to students with HMD 101 credit or equivalent. 3 credit(s)

**HMD 103 - Introduction to the Lodging Industry**

Detailed presentation of lodging operations management in specific areas including front office operations, housekeeping and sanitation, food and beverage, and facility operations, including risk management/security, accounting/financial operations, and hospitality services. In addition to the hotel and motel industry, other topical areas also include vacation ownership (time-share) industry, casino and resort industry. Prerequisite(s): HMD 101. 3 credit(s)

**HMD 202 - Housekeeping Operations**

Application of various systems, procedures, and controls associated with a modern hotel or hospital housekeeping department. Emphasis on management delegation, scheduling systems, routines, and equipment requirements. Laundry operations and hotel recreation departments also reviewed. Prerequisite(s): HMD 101. 3 credit(s)

**HMD 203 - Front-Office Operations**

Study of front-office procedures from reservations through check-out including the night audit and the property management system and their impacts on other lodging operations. Special emphasis placed on guest-employee relations. Prerequisite(s): HMD 101 or GAM 225. 3 credit(s)

**HMD 225 - Basic Computer Applications for Hospitality Managers**

Introduces major hardware and generic software applications including word processing, spreadsheet, presentation and web design software used in the hospitality industry. 3 credit(s)

**HMD 226 - Industry Computer Applications for Hospitality & Tourism**

Survey of computer applications, issues, and trends in the hospital industry. Emphasis placed on the role of technology in operations and management of technology as a strategy. 3 credit(s)

**HMD 240 - Introduction to the Timeshare and Vacation Ownership Industry**

Timeshare and vacation ownership industry in the United States and internationally. History, development and current issues in the timeshare and vacation ownership industry. 3 credit(s)

**HMD 251 - Hospitality Externship**

Internship experience with no classroom component. Corequisites Minimum UNLV GPA of 2.50 or recommendation of the faculty, hotel, culinary arts, and recreation/leisure studies majors only. Prerequisite(s): TCA 201. Note(s): Lab fee required. S/F grading only. 3 credit(s)

**HMD 253 - Hospitality Services Management**

*Formerly Listed as HMD 453.*

Exploration of how services are different from goods, service procedures for various functional areas of hospitality, and how key factors that contribute to service quality and guest satisfaction in services. Prerequisite(s): HMD 101 and ENG 102 or ENG 114, or HON 100 and FAB 159. 3 credit(s)

**HMD 259 - Human Resources Management in the Hospitality Industry**

Recruitment, selection, compensation, training, and performance appraisal of employees and managers in the hospitality industry's culturally diverse work place. Prerequisite(s): HMD 101 or GAM 225 or ENG 101. 3 credit(s)

**HMD 302 - Franchising**

Examination of the multifaceted phenomenon of franchising in the hospitality industry, with particular attention to site study, financing, marketing, and operations. 3 credit(s)

**HMD 307 - Hospitality Leadership, Management, & Ethics**

This course will develop student skills necessary to lead and manage hospitality organizations in an ethically, environmentally, economically, and socially sustainable way. It will include analysis of organizational work environments, critical situations, problem solving and decision implementation. Prerequisite(s): HMD 101, ENG 102, MATH 124 or higher, Admission to a College of Hotel. 3 credit(s)

**HMD 315 - Ethics for the Hospitality Industry**

Develops awareness and understanding of ethical considerations in decision making peculiar to the hospitality industry. Focuses on nuances of this labor-intensive service industry using organizational values as foundation for ethical behavior. Explores the potential for a legal-ethical dichotomy. 3 credit(s)

**HMD 320 - Working with Diversity**

Offers improved understanding and ability to effectively manage a diverse hospitality/service industry workforce. Dimensions of diversity presented and discussed from historical, psychological, and sociological perspectives to provide a depth of understanding and appreciation of difference and its impact on society and work. Prerequisite(s): ENG 101, ENG 102. Note(s): Satisfies Multicultural Requirements. 3 credit(s)

**HMD 340 - Timeshare and Vacation Ownership Resorts**

Examination of the skills and techniques required for planning, development, marketing and sales of timeshare and vacation ownership industry resorts. Prerequisite(s): HMD 240. 3 credit(s)

**HMD 366 - Executive Speakers Series**

This lecture series explores the potential for employment within a particular industry segment and discusses these opportunities with the hospitality executives. Prerequisite(s): HMD 101. May be repeated to a maximum of three credits. Note(s): S/F grading only. 1 credit(s)

**HMD 376 - Special Topics in Hotel Administration**

Series of special courses designed by faculty from academe and industry. Separate units treat topics in a) Computer operations, b) Casino, c) Human resources, d) Facility management, e) Hotel operations and management, and f) Field experience. Prerequisite(s): Junior standing. May be repeated to a maximum of six credits; nine on petition. 1-3 credit(s)

**HMD 395/395D - Facilities Management**

Explores the engineering and maintenance requirements peculiar to the hospitality industry. Special emphasis on environmental issues, modernization, building operating systems, and resource management. Corequisites HMD 395D. Prerequisite(s): HMD 101 or GAM 225, ENG 102 or ENG 114, MATH 124 or higher, Admission to a College of Hotel. Note(s): Lab fee required. 3 credit(s)

**HMD 396 - Architecture in Hotel Management**

Team-taught effort illustrating how architecturally appealing hotels can provide maximum profit when managers and architects cooperate early in providing optimum space and labor utilization. 3 credit(s)

**HMD 401 - Hospitality Law**

Provides a basic understanding of the primary laws and regulations that apply to the hospitality industry, how to effectively manage the legal issues/liabilities faced by all hospitality managers, and how to avoid and prevent legal liabilities through critical thinking and application. Prerequisite(s): HMD 101 or GAM 225, ENG 102 or ENG 114, MATH 124 or higher, Admission to a College of Hotel. 3 credit(s)

**HMD 402 - Employment Law in the Hospitality Industry**

Covers all significant state and federal laws applicable to employment relationships found in hospitality businesses and studies effective methods of managing hospitality employees in compliance with applicable employment laws. Students learn to effectively identify, evaluate and resolve employment law issues and liabilities commonly encountered by hospitality businesses. Prerequisite(s): HMD 101 or GAM 225, ENG 102 or ENG 114, MATH 124 or higher; HMD 259, Admission to a College of Hotel. 3 credit(s)

**HMD 407 - Organizational Behavior Applied to the Service Industries**

Focuses on developing management skills through the study and application of theories of human behavior, particularly in service organizations. Areas addressed include: working with/through others, communication, coaching and counseling, providing feedback, goal setting, stress management, creative problem solving, motivation, power, conflict management, and group dynamics and developing effective teams. Prerequisite(s): HMD 101 or GAM 225, ENG 102 or ENG 114, MATH 124 or higher; Admission to a College of Hotel. 3 credit(s)

**HMD 408 - Labor-Management Relations**

Analysis of labor-management relations (legal, social, and economic) relationships among employers, labor unions, and employees in the hospitality industry. Development of skills necessary to effectively manage employees who are represented by unions. Areas addressed include: union organization and election processes, labor contract negotiations and administration, labor strikes, dispute resolution, and strategic labor management decision-making. Prerequisite(s): HMD 259, junior standing. 3 credit(s)

**HMD 409 - Hospitality Security and Risk Management**

Analysis of risk management and security concerns specific to hospitality and gaming industries; encompassing lodging, food and beverage, casinos, events, and clubs. Includes development of security and risk management, strategies for asset protection, loss prevention, disaster control, crisis management, industrial safety, casino security, and emergency action planning. Prerequisite(s): HMD 395/395D. 3 credit(s)

**HMD 440 - Strategic Planning in Timeshare and Vacation Ownership Industry**

Examination of the skills, tools and techniques needed for successful strategic management of timeshare and vacation ownership industry organizations. Prerequisite(s): HMD 240, HMD 340, senior standing. 3 credit(s)

**HMD 441 - Hospitality Revenue Management**

Revenue management is a method for profitably managing capacity. This course will provide you with the basic tools to apply the principles of revenue management to hospitality operations. The course focuses on the integration of revenue management techniques with information technology, internal management issues and external marketing concerns. Prerequisite(s): TCA 321 and TCA 380. 3 credit(s)

**HMD 450 - Hospitality Internship**

Internships that either rotate through various hotel departments or focus on specific areas such as human resources, facility management, and gaming. Seminars and reports required. Corequisites Minimum UNLV GPA of 2.50 or recommendation of the faculty, and recreation/leisure studies majors only. Prerequisite(s): Admission to a College of Hotel Administration Major, Minimum GPA of 2.0 and TCA 201. Note(s): Lab fee required. 3 credit(s)

**HMD 454 - Strategic Management in Hospitality**

Course transforms students into strategic business leaders. Students assume the role of hospitality managers responsible their company's current and future success. Students acquire in-depth knowledge of strategic management concepts and techniques and develop strategies that enable companies to build and maintain a competitive advantage in a rapidly changing business environment. Prerequisite(s): HMD 407, TCA 321, TCA 380 and FIN 301 or TCA 420, senior standing, 2.0 GPA, Admission to a College of Hotel. 3 credit(s)

**HMD 455 - Hotel Administration Seminar**

Study and discussion of current problems in the hospitality industry using case studies, individual research, and guests. 3 credit(s)

**HMD 456 - Employee Development**

Stresses the techniques in planning, developing, and conducting training programs in food service and lodging firms. Prerequisite(s): HMD 259, senior standing. 3 credit(s)

**HMD 474 - Independent Study in Hotel Management**

Research in an area of concern to the management of hotels and related industries. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**PGM 101 - Golf for Business and Life**

Geared toward novice golfers with little or no golf experience. Focuses on fundamentals of the game with special attention to the benefits of its use in the corporate environment. 1 credit(s)

**PGM 102 - Introduction to Player Development**

Students work intensely on the development of skills necessary to successfully complete the PGA playing ability test. Students learn the cause and effect relationships between swing mechanics and ball flight laws. Prerequisite(s): Admission into the PGA Golf Management concentration. Note(s): S/F grading only. 0 credit(s)

**PGM 110 - Introduction to Golf Operations**

Provides PGM students with knowledge, theory, and application of fundamental concepts in golf management specific to: the introduction to PGA PGM programs, PGA history and constitution, the rules of golf, tournament operations, and golf car fleet management. Students will complete PGA qualifying and level 1 testing specific to these concepts. 3 credit(s)

**PGM 111 - Golf Operations II**

Provides PGM students with knowledge, theory, and application of fundamental concepts in golf management specific to: golf car fleet management and the introduction of teaching and club performance. Students will complete PGA level 1 testing specific to these concepts. 3 credit(s)

**PGM 162 - PGM Internship I**

Internship is a full-time, 40 hour per week, academic experience at an approved golf facility. Internship will provide professional experiences in business planning, customer relations, tournament operations, golf car fleet management, and teaching and golf club performance. Prerequisite(s): PGM 110. 1-6 credit(s)

**PGM 201 - PGA PGM Level 1**

Provides PGM students with knowledge, theory and application of fundamental concepts in golf management specific to: customer relations, business planning, and introduction to teaching and golf club performance. Student will complete level 1 testing specific to these concepts. Prerequisite(s): PGM 110. 3 credit(s)

**PGM 202 - PGA PGM Level 2**

Provides PGM students with knowledge, theory and application of fundamental concepts in golf management specific to: golf operations and merchandising and inventory management. Student will complete PGA level 2 testing specific to these concepts. Prerequisite(s): PGM 201. 3 credit(s)

**PGM 262 - PGM Internship II**

Internship is a full-time, 40 hour per week, academic experience at an approved golf facility. Internship will provide professional experiences in golf operations, merchandise and inventory management, turf grass management, and intermediate teaching and golf club alteration. Prerequisite(s): PGM 162. 1-6 credit(s)

**PGM 301 - PGA PGM Level 2 continued**

Provides PGM students with knowledge, theory and application of fundamental concepts in golf management specific to: turfgrass management and intermediate teaching and golf club alteration. Students will complete level 2 testing specific to these concepts. Prerequisite(s): PGM 202. 3 credit(s)

**PGM 302 - PGA PGM Level 3**

Provides PGM students with knowledge, theory, and application of fundamental concepts in golf management specific to: human resource management, supervising and delegating, and career enhancement. Students will complete PGA level 3 testing specific to these concepts. Prerequisite(s): PGM 301. 3 credit(s)

**PGM 311 - PGA/PGMTM level 2**

Provides PGM students with knowledge, theory and application of the fundamental concepts in golf operations specific to: analysis of the swing, business planning and operations, customer relations, turfgrass management. Students will complete a work experience portfolio as a requirement of PGA/PGMTM level 2 testing. Prerequisite(s): RLS 110, 201. 2 credit(s)

**PGM 362 - PGM Internship III**

Internship is a full-time, 40 hour per week, academic experience at an approved golf facility. Internship will provide professional experiences in human resource management and supervising and delegating, career enhancement, food and beverage control, player development programs and teaching business, and advanced teaching and golf club fitting. Prerequisite(s): PGM 262. 1-6 credit(s)

**PGM 401 - PGA PGM Level 3 continued**

Provides PGM students with knowledge, theory, and application of fundamental concepts in golf management specific to: food and beverage control, player development programs, the teaching business, advanced teaching, and golf club fitting. Prerequisite(s): PGM 302. 3 credit(s)

**PGM 411 - PGA/PGMTM level 3**

Provides PGM students with knowledge, theory and application of the fundamental concepts in golf operations specific to: swing concepts of teaching, supervising and delegating, merchandise and inventory management, and food and beverage control. Students will complete a work experience portfolio as a requirement of PGA/PGMTM level 3 testing. Prerequisite(s): RLS 110, 201, 301. 2 credit(s)

**PGM 462 - PGM Internship IV**

Internship is a full-time, 40 hour per week, academic experience at an approved golf facility. Internship will provide a culmination of professional experiences covering all learning outcomes of the PGA PGM level 1, 2, and 3 curriculum. Prerequisite(s): PGM 362. 1-6 credit(s)

**PGM 463 - A-E Professional Golf Management Internship I-V**

Internship is a full-time, 40 hour per week, academic experience at an approved golf facility. Internship sites offer variety of professional experiences in the operation and management of the: facility, member relations, golf retailing, food and beverage, turf grass, and tournaments. Course repeatable up to 12 credits. Students must complete 12 credits of internship. Prerequisite(s): Admission to PGM Concentration. PGM 463 A, B and C: 2 Credit(s) each. PGM 463D and E. Note(s): PGM 463D and PGM 463E are both 3 credit courses. 3 credit(s)

**TCA 103 - Hospitality Academic and Personal Development**

Provides students with skills, information, and experiences to improve their academic performance, assist in adapting to life's vicissitudes, and help in the development of realistic academic planning through interaction with faculty, staff, and fellow students. Major areas of focus include critical thinking, communication, global/multicultural awareness, and civil engagement and ethics, and life-long learning. Prerequisite(s): Freshman only. Note(s): Fulfills the First Year Seminar requirement. Open only to freshman and returning students. 2 credit(s)

**TCA 110 - Introduction to the Convention Industry**

Overview of the convention industry, including meetings, trade shows, conferences and incentive travel. Note(s): Roles of the suppliers to the industry also covered. 3 credit(s)

**TCA 141 - Travel and Tourism I**

Survey of travel and tourism; focus on concepts, terminology, demographics, financial significance, and trends. 3 credit(s)

**TCA 201 - Hospitality Career Development**

Prepares students for fulfilling balanced careers as hospitality professionals. Takes a strategic orientation to career planning (3 to 5 years) by facilitating students developing a personal mission statement and relevant strategies for designing and living a satisfying whole life. Prerequisite(s): ENG 102 or ENG 114 and Admissions to a College of Hotel Major. 3 credit(s)

**TCA 221 - Hospitality Accounting I**

Hospitality accounting principles and practices pursuant to the industry's uniform systems of accounts. Prerequisite(s): MATH 124 or higher. 3 credit(s)

**TCA 241 - Travel and Tourism II**

Evaluates the economic, social, and political impact of tourism and travel, including markets, transportation, media, destination development, and the interrelationship of cooperating agencies. Prerequisite(s): TCA 141. 3 credit(s)

**TCA 242 - Travel Agency Operations**

Examination of the services and functions of retail and wholesale travel agencies. Agency administration, procedures, ticketing, accounting, promotion, and travel counseling. Prerequisite(s): TCA 101 and TCA 141. 3 credit(s)

**TCA 251 - Hospitality Externship**

Internship experience with no classroom component. Lab fee required. Internships in the following areas: meetings, conventions, expositions, destination management/marketing, hospitality/casino marketing or accounting/finance, club, hotel catering, entertainment, theme parks or tourism. Prerequisite(s): TCA 201, minimum UNLV GPA of 2.50 or recommendation of faculty, Hospitality, Recreation/Leisure Studies, or Culinary Arts degrees only. Note(s): S/F grading only. 3 credit(s)

**TCA 311 - Destination Management Company Administration**

Role of the destination management company in the tourism and convention industries. Includes markets, suppliers, transportation, staffing, tours, computers, events, equipment, accounting, sales, and marketing. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 321 - Hospitality Accounting II**

Analysis of departmental operating statements for use by department heads and general management. Prerequisite(s): TCA 221, Admission to a College of Hotel. 3 credit(s)

**TCA 330 - World Culture and Hospitality Management**

Differences in multicultural customs and behaviors in the hospitality industry. Focuses on cultural differences and the needs of international tourists. Differences in age, gender, social rank, religious requirements, and attitudes towards people with disabilities. Prerequisite(s): ENG 101 or three credits social sciences. Note(s): Satisfies International Requirements. 3 credit(s)

**TCA 331 - Asian Travel and Tourism Development**

Study of Asian travel and tourism industries. Focuses on China, Korea, Japan, and several Pacific Rim countries on their sustainable tourism development. Students research and study issues in the regions, such as travel safety, terrorism, eco-tourism, and cultural considerations in tourism development and management. Note: this course is offered as a distance education course. Prerequisite(s): HMD 101. Note(s): Satisfies International Requirement. 3 credit(s)

**TCA 342 - The Recreation Industry**

Study of leisure and the recreation industry, their interrelationship to American lifestyles, and their implications for the hospitality industry. 3 credit(s)

**TCA 344 - Media in Entertainment**

Media-based entertainment, including history and business structures. 3 credit(s)

**TCA 345 - The National Parks**

Exploration of America's national parks. Includes historical perspective of the park movement and the National Park Service, management issues in the parks, tourism linkages, and the uniqueness of the areas. Special emphasis on the large scenic parks of the American West. Prerequisite(s): HMD 101 and ENG 102. 3 credit(s)



**TCA 373 - Hotel Entertainment**

Study of entertainment's relationship to the management of resorts and hotels—large and small—in Nevada and elsewhere. Contracts and contacts with performers, unions, agents, and managers included. 3 credit(s)

**TCA 376 - Special Topics in Tourism and Convention Administration**

Series of special courses designed by faculty from academe and industry. Separate units treat topics in a) Accounting, finance, computer, b) Marketing, c) Convention, meetings, d) Clubs, e) Entertainment, f) Travel and tourism, g) Sports, h) Professional development. Prerequisite(s): Junior standing. May be repeated to a maximum of six credits; nine on petition. 1-9 credit(s)

**TCA 378 - Club Food and Beverage Management**

Unique aspects of providing food and beverage services to the membership of private clubs. Lectures, case studies and field trips used to cover management, organization, facility design, menu development, budgeting, marketing, production, service and trends. Formal and informal dining, athletic food and beverage facilities, member functions and catering included. 3 credit(s)

**TCA 378L - Club Food and Beverage Management Practicum**

On-site practicum in a commercial food and beverage operation. Emphasis on application of knowledge and skills to actual job roles and responsibilities. Note(s): Must be taken concurrently with TCA 378. 1 credit(s)

**TCA 379 - Catering Operations and Sales**

Study of hotel catering including operation, sales, and relationships with other departments and outside vendors. Emphasis on logistical operations and seeking and servicing various market segments. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 380 - Hospitality Marketing I**

Organization of hospitality marketing functions: Primary focus on marketing programs and their role in the management of successful hospitality organizations. Prerequisite(s): HMD 101, ENG 102 or ENG 114, MATH 124 or higher, Admission to a College of Hotel. 3 credit(s)

**TCA 381 - Sales Blitz**

Study of sales techniques, preparation, and presentation for an on-site and selling practicum. Instruction includes preparing for the sale, making the sales call, overcoming objections, closing the sale, and follow up. Prerequisite(s): HMD 101, TCA 380 and concurrent enrollment in TCA 381L. 1 credit(s)

**TCA 381L - Sales Blitz Practicum**

Opportunity to develop sales experience in an on-site class and selling practicum. Prerequisite(s): HMD 101, TCA 380, and TCA 381 or concurrent enrollment in TCA 381. May be repeated to a maximum of two credits. Note(s): S/F grading only. 1 credit(s)

**TCA 382 - Incentive Travel**

Study of the use of travel as an incentive to help meet marketing objectives. Includes the organization and marketing of transportation, hotels, restaurants, tour and ground operators, destination, and other creative services. Prerequisite(s): HMD 101 and TCA 141. 3 credit(s)

**TCA 383 - Meeting Planning**

Role of the association and corporate meeting planner, including setting objectives and format, site selection, negotiations, program design, speaker selection, budgeting, contracts, marketing, registration, on-site logistics, and evaluation. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 384 - Destination Marketing**

Role of the Convention and Visitors Bureau, including economic impact of visitor markets, structure, governance, membership, and advertising. Prerequisite(s): HMD 101 and TCA 380 or MKT 301. 3 credit(s)

**TCA 385 - Convention Sales and Service Management**

Practical insights into the different kinds of meetings and conventions, the types of organizations that stage such events, and the people who hold the key to site selection. Includes how to reach, sell, and service these important groups and people. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 386 - Convention Facility Management**

Operations of convention and conference centers, including organizational structure, design, and booking. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 387 - Fairs and Amusement Park Administration**

Management and marketing of fairs and amusement parks, including crowd control, concessions, security, and contract negotiations. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 389 - Exposition Service Contracting**

Logistical support systems of conventions, including the design of floor plans, exhibit design, installation and dismantling, freight and drayage, utilities, contracting labor, and working with unions. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 390 - Exhibit Marketing and Management**

Role of the corporate exhibit manager, including setting objectives, commissioning booth design, logistics of shipping and installation, and staffing and training of booth personnel. Prerequisite(s): HMD 101 or MKT 301. 3 credit(s)

**TCA 392 - International Exhibiting and Exposition Management**

Production and management of exhibits and pavilions outside the United States and organizing expositions in foreign venues. Corequisites TCA 388. 3 credit(s)

**TCA 396 - Entertainment and Event Marketing**

Revise and develop marketing concepts as they relate to the success of any entertainment product. Emphasis on identifying the marketing and promotional strategies, creative use of public relations, cost-effective media buying techniques, and advertising and promotion scheduling. Prerequisite(s): TCA 380. 3 credit(s)

**TCA 405 - Legal Environment of Meetings and Events**

Introduction to legal issues that most commonly impact the planning and managing of meetings and events. Contracts between meeting organizers and venues, vendors, and suppliers will be explored in depth. Trademark, copyright, alcohol liability, dispute resolution and more will be discussed in the context of meetings and events. Prerequisite(s): TCA 110, TCA 383. 3 credit(s)

**TCA 420 - Hospitality Financial Management**

Introduces students to the financial management function in the hospitality organization. Focuses on the process of value creation. Other topics include financial markets, valuation criteria and hospitality feasibility and appraisal. Taking ECON 261 before this course is highly recommended. Prerequisite(s): ENG 102 or ENG 114, TCA 321, and Admission to a College of Hotel Administration Major. 3 credit(s)

**TCA 421 - Market and Feasibility Studies**

Examination of the structure and techniques used to compile standard market and feasibility studies for hospitality properties, particularly hotels. Analysis includes supply, demand, site evaluation, and projected operating statistics. Each student required to prepare market and feasibility studies. Prerequisite(s): TCA 221 and any ECON course. 3 credit(s)

**TCA 422 - Operational Analysis for the Hospitality Industry**

Major management models applicable to the tourism, lodging, restaurant, and gaming industries enhances ability to problem solve and make decisions in hospitality operations. Prerequisite(s): TCA 321 and TCA 420 or FIN 301. 3 credit(s)

**TCA 430 - Sport Tourism**

A study of the interconnectedness of sport and tourism, analyzed from behavioral, historical, economic, management, marketing, environmental, and policy perspectives. Prerequisite(s): TCA 141. 3 credit(s)

**TCA 445 - Strategic Hospitality Marketing**

Linking marketing and other functional strategies to the hotel's overall corporate strategy. Prerequisite(s): TCA 380. 3 credit(s)



**TCA 448 - Cruise Ship Administration and Marketing**

In-depth discussion of the growth, direction, organization structure, and marketing concepts relating to the cruise industry. All aspects of the cruise industry including philosophy, management, staffing, operations, and marketing strategies. Prerequisite(s): Consent of instructor. 3 credit(s)

**TCA 449 - International Tourism**

Study of international travel and tourism. Focuses on the economic, social, political, and environmental considerations of international tourism management and development. Prerequisite(s): Upper-division standing. Note(s): Satisfies International Requirement. 3 credit(s)

**TCA 450 - Tourism & Convention Internship**

Customized internships in or outside Las Vegas in the following areas: meetings, conventions, expositions, destination management/marketing, hospitality/casino marketing or accounting/finance, club, hotel catering, entertainment, theme parks or tourism. Prerequisite(s): TCA 201, minimum GPA 2.50 or recommendation of faculty. Hospitality, culinary arts, and recreation/leisure studies majors only. Note(s): Seminars and/or reports required. Lab fee required. 3 credit(s)

**TCA 457 - Club Management Operations**

General administrative procedures in private clubs. Provides the hospitality student with the unique sensitivities required in managing and operating in the increasingly lucrative club management market. Prerequisite(s): Consent of instructor. 3 credit(s)

**TCA 458 - Visiting Professor's Seminar**

Series of professional papers and discussions with the faculty. Opened to a limited number of senior students. Prerequisite(s): Consent of the dean. Note(s): S/F grading only. 0 credit(s)

**TCA 464 - Sport and Concert Arena Management**

Operations of arenas, stadiums, performing arts centers, or amphitheaters. Incorporates logistical considerations of booking events, contract negotiations, ticket sales, maintenance and production. 3 credit(s)

**TCA 470 - Hospitality Realty**

Considers real estate investment opportunities in the hotel, motel, and restaurant industries. Emphasis on location analysis, property appraisal, and financing alternatives. 3 credit(s)

**TCA 471 - Practicum in Hotel Education**

In-class experience that allows the student to work with the hotel faculty in daily teaching and course assignments. 3 credit(s)

**TCA 474 - Independent Study in Tourism and Convention Management**

Research in an area of concern to the management of convention, tourism, entertainment, clubs, hospitality/casino marketing and accounting/finance, or related industries. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**TCA 476 - Trade Show Operations**

Management problems of trade shows, including design, construction, customs, and regulations. Prerequisite(s): TCA 383. 3 credit(s)

**TCA 481 - Hotel Advertising and Sales Promotions**

Practical approach to contemporary advertising for hotels, restaurants, and tourist destinations. Focuses on the distinctive aspects of hospitality advertising principles, strategies, techniques and their application to industry situations. Emphasis on providing the hospitality manager with a working knowledge in the areas of planning, developing and implementing effective advertising campaigns. Prerequisite(s): HMD 101. 3 credit(s)

**TCA 483 - Hotel Marketing II**

Analysis, synthesis, and evaluation of past, current, and predicted trends in international hospitality marketing in a global market place. Specific attention directed toward an evaluation of the contemporary international marketing strategies of major hospitality corporations. Prerequisite(s): TCA 380 and consent of instructor. 3 credit(s)

**TCA 487 - Association Management**

Management of trade associations and their relationship to hospitality management. Focuses on structure and processes with attention to finances, taxation, and the management and operation of conventions and trade shows. 3 credit(s)

**TCA 488 - Special Events Management**

Management and operational activities of special events. Analyzes essential services that provide the necessary infrastructure for the event. Examines creative as well as practical aspects of coordinating the meeting/event environment through theme design, decor, and numerous other staging considerations. Prerequisite(s): TCA 383, Admission to a College of Hotel. 3 credit(s)

**TCA 489 - Meetings and Events Coordination**

Provides scope of competencies required to be a professional meeting/event coordinator. Analyzes essential services that provide the necessary infrastructure for the event. Examines creative as well as practical aspects of coordinating the meeting/event environment through theme design, decor, and numerous other staging considerations. Prerequisite(s): TCA 383 and TCA 488. 3 credit(s)

**TCA 490 - Festival and Event Management**

Application of established standards, techniques, and practices of festival and event management. Research, design, planning, coordination and evaluation stages of festival and event management. Prerequisite(s): Senior in good standing (minimum GPA of 2.5), TCA 110, TCA 321, TCA 380, and TCA 488, Admission to a College of Hotel. 3 credit(s)

**TCA 496 - Entertainment on the Road**

Performance tour management logistics, including booking, scheduling, shipping, movement of equipment and artist management challenges. Prerequisite(s): TCA 373 or HMD 401. 3 credit(s)

**TCA 497 - Performing Artist Representation and Management**

Artist representation in the entertainment and convention industry. Role of artist, agent, manager, and buyer explored. Includes negotiation, contracting, booking, scheduling, and marketing. Prerequisite(s): TCA 380. 3 credit(s)

**TCA 498 - Entertainment Production and Operations Management**

Logistics of maintaining, operating, and managing a permanent entertainment production or attraction. Marketing, operations management, administration management, and stage management included. Prerequisite(s): TCA 380 and TCA 373. 3 credit(s)

# College of Liberal Arts

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## ***Purpose and Focus***

The College of Liberal Arts offers a rich variety of courses, majors and interdisciplinary programs in the humanities and the social sciences. A liberal arts education involves developing an array of intellectual skills, the ability to use a variety of methodologies to understand our changing world, and, a broad base of diverse knowledge. Our courses and degree programs are designed to provide such a foundation and to create life-long learners who can adapt to the inevitably changing environments they will encounter.

The College includes outstanding faculty who thoughtfully balance their roles as creators of knowledge through original research and disseminators of knowledge as dedicated teachers. Many of our faculty members have earned national and international reputations as a result of their published work in fields ranging from Anthropology to Gender and Sexuality Studies. We encourage you to take advantage of the wealth of educational opportunities available in our College - including internships, field work experiences, lab experiences, and more- and the various clubs and organizations that our departments offer. We are also justly proud of our Wilson Advising Center. As you make decisions about your educational future, we encourage you to consult with Wilson Advising and to speak with any professor or chairperson in the College to plan your program of study. Whether you are taking courses in the College to fulfill core requirements or are majoring in one of our degree programs, we welcome you.

## ***Accreditation***

Northwest Commission on Colleges and Universities

## ***Departments, Majors, and Undergraduate Degrees***

Department of Anthropology

Anthropology — Bachelor of Arts

Department of English

English — Bachelor of Arts

English Creative Writing Concentration

English Professional Writing Concentration

Master of Fine Arts

Department of History

History — Bachelor of Arts

Interdisciplinary Degree Programs

Interdisciplinary Studies — Bachelor of Arts

Afro-American Studies — Bachelor of Arts

Gender and Sexuality Studies — Bachelor of Arts

Asian Studies Concentration

Latin American Studies Concentration

Multidisciplinary Studies Concentration

Social Science Studies Concentration

Department of Philosophy

Philosophy — Bachelor of Arts

Philosophy Law and Justice Concentration

Department of Political Science

Political Science — Bachelor of Arts

Department of Psychology

Psychology — Bachelor of Arts

Department of Sociology

Sociology — Bachelor of Arts

Department of World Languages and Cultures

French — Bachelor of Arts

German — Bachelor of Arts

Romance Languages — Bachelor of Arts

Spanish — Bachelor of Arts

## ***Graduate Degree Programs***

Anthropology — Master of Arts; Doctor of Philosophy

Creative Writing — Master of Fine Arts

English — Master of Arts, Doctor of Philosophy

English — Master of Fine Arts in English

History — Master of Arts, Doctor of Philosophy

Political Science — Master of Arts, Doctor of Philosophy

Psychology — Doctor of Philosophy (Clinical Program, Experimental Program)

Sociology — Master of Arts, Doctor of Philosophy

Spanish — Master of Arts

Minors

Afro-American Studies

American Indian and Indigenous Studies

Anthropology

Asian Studies

Chinese

Classical Studies

Creative Writing

English

French Studies

Gender and Sexuality Studies

German Studies

Gerontology

History

Italian Studies

Japanese Studies

Latin American Studies

Latina/o Studies

Neuroscience

Philosophy

Philosophy, Law and Justice

Political Science

Professional Writing

Psychology

Sociology

Spanish

Spanish for the Professions

## ***Interdisciplinary Academic Certificate Program***

Great Works Academic Certificate Program

## ***College Policies***

**Academic Policies:** In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must fulfill an additional three credits of fine arts (any course in ART, DAN, FIS, MUS, or THTR) and six credits of foreign language or foreign culture. Some departments

in the College of Liberal Arts require their majors to take foreign language rather than foreign culture courses. Those students who opt to take a foreign language must take two courses in the same foreign language at the university level or the equivalent, to be determined by the College Entrance Examination Board Test administered by the Department of Foreign Languages. Students who opt to take foreign culture should see the Wilson Advising Center or the college for a list of acceptable courses that meet this requirement. Certain courses on the college foreign culture list have been accepted by the General Education Committee as fulfilling the international and/or multicultural requirements. Students in the College of Liberal Arts may use these courses to simultaneously fulfill the college foreign culture requirement and the core international or multicultural requirement.

In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must fulfill the requirements of the three distribution areas of the Core Curriculum. In other words, Humanities majors must fulfill the humanities distribution requirement outside the major, and Social Science majors must fulfill the social science distribution requirement outside the major. In addition to NSHE and UNLV requirements, all majors in the College of Liberal Arts must complete at least 42 credits at the upper-division level (300–400 level courses). Also, at least 50 percent of courses in a Liberal Arts student's major must be taken at UNLV. Students may not fulfill general education requirements with courses in their major field.

**Probation/Suspension:** Students who maintain a UNLV cumulative grade point average of 2.00 or above are in good standing. Those falling below a 2.00 GPA will be subject to University Probation and/or University Suspension. See UNLV Academic Policies in this catalog for a description of the probation and suspension rules.

**Liberal Arts/Business Administration Track:** The College of Business offers a specially constructed business administration minor. This program prepares Liberal Arts students for a potential business career or for the 30-semester-hour Master's in Business Administration option at UNLV. Please consult the College of Business section of this catalog for details.

**International Study:** The College of Liberal Arts encourages international studies. Information is available concerning university affiliations abroad through the Office of International Programs and under International Programs in this catalog.

**Scholarships:** Please refer to College/Departmental Scholarships in the Student Financial Services section of this catalog.

## ***Advisement***

All students should contact the Wilson Advising Center for academic advising (<http://liberalarts.unlv.edu/WAC/>). Students should also make it a point to consult with their faculty advisors for career advising and for more specialized academic advising in their majors or minors.

## ***Writing Center***

The Writing Center, staffed by English Department graduate students, offers all UNLV students and staff members assistance with any writing project. Consultants are available to discuss any stage of the writing process, from generating ideas to developing and polishing

later drafts. Consultants can help with projects such as reports, newsletters, essays in any discipline, graduate school applications, and much more. The Writing Center is not a proofreading service; consultants help the writers themselves identify and correct problems in their own writing.

The Writing Center also offers workshops throughout the fall and spring semesters on various topics pertaining to writing. Past topics have included Back to the Basics, Mastering the MLA, Mastering the APA, International English, Writing with Style, and others. New topics are added regularly.

This service, offered through the College of Liberal Arts, is free of charge. For appointments, hours, and/or more information, please visit the Writing Center in the Central Desert Complex Building 3, or call 895-3908.

### **COLA 100E - First Year Seminar: Exploring Majors**

This course introduces students to university life and the University Undergraduate Learning Outcomes by exploring the skills and knowledge necessary to succeed as an undergraduate. Designed for exploring (undeclared) majors to increase their awareness of their roles within their respective communities while exposing them to learning strategies and critical thinking. Note(s) Fulfills First Year Seminar requirement. 3 credits

### **COLA 100LA - First Year Seminar**

This course will introduce students to university life and the University Undergraduate Learning Outcomes by exploring a specific topic area and the skills and knowledge necessary to succeed as an undergraduate. The topic area will vary by section. See section notes for description of the content of each section. Note(s): Fulfills First Year Seminar requirement. 3 credit

# **Great Works Academic Certificate**

## ***Purpose and Focus***

This program (abbreviated GWAC) provides students with an opportunity to take part in a conversation with some of the best thinkers of all time. The study of great works in philosophy, politics, literature, sciences, religion, and the fine arts encourages critical thinking. Such study confronts what it means to be human and thus immeasurably enhances a person's daily life. There is a growing acknowledgment among employers in business and the professions that this sort of education develops lifelong learners and future leaders. This program also gives students who want to pursue graduate education early experience in grappling with original works of theory and literature such as they will inevitably encounter in graduate school.

Students who fulfill the requirements will receive a notation on their transcript, in addition to the certificate.

Students should notify the director of their interest in the program as soon as possible in their college career. Students who think they have already fulfilled some of the requirements are urged to contact the director.

## ***Goals***

1. To improve students' ability to read and analyze carefully. The challenge of great works summons careful attention and thoughtful critique because such works are impossible to categorize easily. Students will leave the program as better critical thinkers in all aspects of their lives.

2. To promote students' facility with the written word.  
Most classes within the program have a writing component that involves the development of good skills in research and analysis. In addition, exposure to excellent writing and thought helps promote better writing. Careful reading is a prerequisite of good writing.
3. To engage students in a conversation on fundamental questions of human life.  
Works on the list for the program treat questions of what it means to be human, such as: What is the structure of the universe? What is human nature? What is love? What is justice, and what does it require of us? Even if students do not find answers to those questions and learn only how to ask the questions more cogently, they will have accomplished a great deal.
4. To enrich students' university experience and encourage lifelong learning.  
Reading primary texts allows students to experience more continuity across subject matters. This experience encourages a lifelong curiosity — an eagerness and an ability to continue learning independently after college.
5. To provide students with a superior background for graduate school.  
Graduate programs want students who are familiar with key primary texts in areas such as philosophy, literature, and the sciences. Those texts are the foundation of all disciplines in the liberal arts.
6. To prepare students better for today's careers.  
Specific skills learned in college often become less useful within several years of graduation, and people may change jobs or professions several times in the course of their lives. The program will help students develop an intellectual strength that will allow them to maintain a variety of jobs more successfully.
7. To reward students' achievements with scholarships and other honors.  
Students who excel in the program should be more competitive for national scholarships and honors.
8. To encourage integration of students' academic and social activities.  
Activities such as a lecture series and a reading group will encourage shared experiences in learning.

### ***Admission to the Program***

There is no formal admissions process. To participate in the program, a student must be formally admitted to UNLV and have a grade point average of at least 3.00. The program is open to undergraduates from any college.

### ***Advisement***

Advising is provided by the faculty on the GWAC Committee and by the Wilson Advising Center.

### ***Degree Requirements***

- GWK 400 - Senior Seminar in Great Works ..... 1 credit
- Electives ..... 18 credits
- (see note 1)
- Total Credits: ..... 19

### **Notes**

1. A list of approved electives is available at the website (<http://www.unlv.edu/liberalarts/gwac>). Courses other than those electives, including independent studies, may be accepted with the approval of the director. The standard rule is that two-thirds or more of the readings on the syllabus should consist of works (studied in whole or in part) by authors on a list approved by the GWAC Committee. The list of authors is also available at the website.
2. At least twelve credits must be at the 300- or 400-level.
3. At least nine credits must be completed at UNLV.
4. Students must take at least one course with readings from before 1648 and at least one course with readings from after 1648, but those courses need not have all of their readings within only one of those two periods.
5. Students may use nine credits at the 100- or 200-level in a single foreign language as a substitute for three credits of electives (but not so as to reduce the number of 300- or 400-level credits below twelve).
6. Students may take three credits of electives in visual or performing arts (but not so as to reduce the number of 300- or 400-level credits below twelve). Students should obtain the approval of the director for a particular course. Courses that are normally accepted will cover the history of art, music, or film.
7. To receive the certificate, a student must have a minimum grade point average of 3.00 for courses taken within GWAC.
8. Students must receive a grade of B- or better in a course for it to be accepted for GWAC.
9. Students may count courses taken to fulfill graduation requirements (university, college, and departmental) toward fulfillment of GWAC requirements if the course is on the list of electives or otherwise meets the requirement for content.

Committee:

David Fott, Political Science, Director  
Megan Becker-Leckrone, English  
David Beisecker, Philosophy  
Andrew Bell, History  
Ralph Buechler, World Languages and Cultures  
David Forman, Philosophy  
Margaret Harp, World Languages and Cultures  
Richard Harp, English  
John Hay, English  
Mark Lutz, Political Science  
Anne Stevens, English

### **GWK 400 - Senior Seminar in Great Works**

Seniors attempting to complete the Great Works Academic Certificate program discuss one or more great works in a common reading list and have the opportunity in those discussions to synthesize the material in that list with what they have studied in their other GWAC courses. Prerequisite(s): Senior standing and approval of GWAC Committee. May be repeated to a maximum of two credits. 1 credit(s) ANTH 101 - Introduction to Cultural Anthropology Survey of the nature of culture with emphasis on variation in human behavior in contemporary societies. 3 credit(s)



# Department of Anthropology

## **Purpose and Focus**

The degree in anthropology is a balance of practical, applied research and a broad-based academic curriculum, providing not only insights into the nature of humankind but also the background necessary to find career opportunities wherever understanding of human beings and sensitivity to ethnic differences are needed.

## **Accreditation**

Northwest Commission on Colleges and Universities

## **Undergraduate Major**

Anthropology

**Academic Policies:** It is expected that students majoring in Anthropology or Afro-American Studies will maintain continuous enrollment by registering in each term after matriculation (summer excluded) for at least three credits of work related to meeting College of Liberal Arts and/or Department of Anthropology requirements.

## **Advisement**

All undergraduate academic advising is done through the Wilson Advising Center. The department also has an Undergraduate Coordinator who will help with class choices. Career advising is done by faculty in the Department of Anthropology.

## **Anthropology Major- Bachelor of Arts (BA)**

Please see the UNLV College of Liberal Arts, Anthropology web page at [www.unlv.edu/anthro/](http://www.unlv.edu/anthro/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Learning Objectives**

1. Learn the basic tenets of anthropology and evolution (Encyclopedic knowledge).
2. Study the different models of the social sciences to analyze individual and group behavior (Relativistic/pluralistic stance).
3. Acquire knowledge about and understanding of the basic components of social and cultural living (Individual/collective reasoning).
4. Students learn about the fundamental aspects of human biological, social, and cultural behavior, both past and present. Thanks to the commitment of our faculty, students are trained in a way that balances practical empirical, and theoretical approaches in anthropology.

## **University Graduation Requirements**

- Please see Graduation Policies for complete information

Anthropology Degree Requirements ..... Total: 120 Credits  
(see note 1 and 2)

General Education Requirements

First-Year Seminar ..... Credits: 3  
English Composition ..... Credits: 6  
• ENG 101 - Composition I  
and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one with a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in Anthropology ..... Subtotal: 42 Credits

Required courses ..... Credits: 15

- ANTH 101 - Introduction to Cultural Anthropology
- ANTH 102 - Introduction to Physical Anthropology
- ANTH 105 - Introduction to World Archaeology
- ANTH 193 - Essentials of Data Analysis for Anthropologists \*
- ANTH 436 - History of Anthropology

\*ANTH 193 may be substituted with an equivalent statistics course, pending departmental approval.

A minimum of one lab or field course from the following (3 credits):

- ANTH 438 - Ethnographic Field Methods
- ANTH 447 - Archaeological Field Methods
- ANTH 448B - Archaeological Field Practicum
- ANTH 449A - Ceramic Analysis in Archaeology
- ANTH 449B - Lithic Artifact Analysis
- ANTH 449D - Zooarchaeology Laboratory
- ANTH 462 - Human Osteology
- ANTH 464 - Dental Anthropology

NOTE: Only one course from this list is required however additional lab and field courses listed in this sub-section may be taken as electives (see section 4).

A minimum of one theory course from the following (3 credits):

- ANTH 417 - Evolution & Culture: 'Darwinian' models of culture
- ANTH 422 - Psychological Anthropology
- ANTH 428 - Signifying Identities: Ethnicity, Nationality, Gender, and Class
- ANTH 455 - Archaeological Theory
- ANTH 465 - Human Growth and Aging
- ANTH 467 - Health and Disease in Antiquity
- ANTH 469 - Evolution and Biology of Human Behavior
- ANTH 485 - Language and Culture

\*NOTE: Only one course from this list is required however additional theory courses listed in this sub-section may be taken as electives (see section 4).

Selection of remaining credit hours from the above listed and/or following elective courses (21 credits):

- ANTH 110L - Physical Anthropology Laboratory
- ANTH 301 - Peoples and Cultures of Native North America
- ANTH 305R - Arctic Anthropology
- ANTH 306 - Contemporary Chinese Society
- ANTH 311 - Cultural Resources Management
- ANTH 331 - A Global Crisis: Food, Human Health, and Climate
- ANTH 360 - Dogs, Cats and Other Beasts: Anthropology of Animals
- ANTH 365 - Bones, Bodies and Trauma: Forensic Studies in Anthropology

Anthropology

- ANTH 400C - Native Americans of the Southwest
- ANTH 403 - Anthropology of Women and Men
- ANTH 409 - Economic Anthropology
- ANTH 411 - Buddhism and Culture
- ANTH 420 - Magic, Witchcraft, and Religion
- ANTH 426 - Medical Anthropology
- ANTH 427 - Cultures and Cognition
- ANTH 434 - Ethnohistory
- ANTH 440A - Archaeology of North America
- ANTH 440B - Archaeology of the Great Basin
- ANTH 440C - Archaeology of the Southwest
- ANTH 441B - Near Eastern and Mediterranean Prehistory
- ANTH 441C - Peoples and Cultures of Ancient Near East
- ANTH 443 - Environmental Archaeology
- ANTH 444 - Bioarchaeology
- ANTH 456 - Archaeology of Technology
- ANTH 457 - Archaeology of Complex Societies and Archaic States
- ANTH 458 - Origins of Inequality: A Cross-cultural Perspective
- ANTH 460 - Primate Evolution
- ANTH 466 - Nutritional Anthropology
- ANTH 471 - Evolution of Human Sexuality
- ANTH 472 - Hormones and Behavior
- ANTH 473 - Anthropology of Violence
- ANTH 475 - Evolutionary Medicine
- ANTH 490 - Study in Anthropology Abroad
- ANTH 491 - Internship in Anthropology
- ANTH 497A - Senior Thesis I
- ANTH 497B - Senior Thesis II
- ANTH 499 - Independent Research

Other Anthropology Requirements ..... 18 Credits

Social Science..... Credits: 9

Fine Arts ..... Credits: 3

Foreign Language/Foreign Culture ..... Credits: 6

Other Electives..... Credits: 14-24

NOTE: Students interested in graduate study should select elective courses carefully.

Total Credits: ..... 120

## Notes

1. Selection of remaining credit hours for the major, college, and university requirements, and electives are left to the student. Students interested in graduate study should select these carefully and in consultation with their advisor.
2. A total of at least 42 credits in upper-division course work (300-400 level) is required of all majors.

## Anthropology Minor

Courses Include ..... Total Credits: 24

- ANTH 101 - Introduction to Cultural Anthropology
- ANTH 102 - Introduction to Physical Anthropology
- ANTH 105 - Introduction to World Archaeology
- ANTH 106 - Introduction to Anthropological Linguistics

and three additional three-credit or four-credit courses selected in consultation with an advisor.

A minimum of 12 credits must be at the upper-division (300-400) level.

## Department of Anthropology

### ANTH 102 - Introduction to Physical Anthropology

Origin, evolution, and geographical distribution of humans, the growth of populations and how they change over time, genetics and heredity, human adaptation and human diversity. Emphasizes the origin and evolution of humans and their place in nature. 3 credit(s)

### ANTH 104 - Great Discoveries in Archaeology

Examination of influential archaeological discoveries and the role of contemporary archaeological fieldwork and analysis. Illustrates archaeology's contribution to modern views of the past. 3 credit(s)

### ANTH 105 - Introduction to World Archaeology

Development of human society and technology from the earliest traces of culturally patterned behavior to the emergence of civilization in the Old and New Worlds. 3 credit(s)

### ANTH 106 - Introduction to Anthropological Linguistics

An introduction to cross-cultural aspects of language across the globe. Topics include language as a system, its interaction with elements of the social world such as gender, age, and class/caste, and the ways in which its usage and worldviews reciprocally constitute one another. 3 credit(s)

### ANTH 110L - Physical Anthropology Laboratory

Practical experience in aspects of physical anthropology: the mechanisms of inheritance, osteology and forensic science, comparative anatomy and human evolution, the processes of human growth and aging, and aspects of modern human variability. Prerequisite(s): ANTH 102. Note(s): Satisfies the General Core Requirement for a laboratory science course. 1 credit(s)

### ANTH 193 - Essentials of Data Analysis for Anthropologists

Introduces students to the methods involved in collecting, managing, and analyzing anthropological data. Both exploratory and confirmatory statistical methods will be covered. Emphasis will be placed on how to manage large databases using computer programs, how to select appropriate analytical techniques, and how to organize and present data for professional audiences. 3 credit(s)

### ANTH 216 - Cultures Through Film

This course is an introduction to visual anthropology using ethnographic films to explore how culture is portrayed using visual media. Students will view films that have defined and altered the genre, learn the history of ethnographic film, and situate ethnographic films in the broader context of cross-cultural representations in Anthropology. Prerequisite(s): ANTH 101. 3 credit(s)

### ANTH 301 - Peoples and Cultures of Native North America

Survey of culture areas of native North America and description of representative tribes and of the ways they lived when first visited by Euro-Americans. Prerequisite(s): ANTH 101. Note(s): Satisfies Multicultural and Foreign Culture Requirement. 3 credit(s)

### **ANTH 305R - Arctic Anthropology**

The Arctic is one of the most demanding environments where humans have lived in. This course explores lives of Indigenous people from the Russian Far East to Greenland and their social, economic, and technological adaptations. We will question the evidence for peopling, cultural transformation and persistence, social complexity and identity, and colonialism. Prerequisite(s): ANTH 101 or ANTH 105. 3 credit(s)

### **ANTH 306 - Contemporary Chinese Society**

Highlights the changing characteristics of Chinese urban-rural and state-society conflicts in the era of Mao Zedong's leadership and in the contemporary post-Mao reforms. Prerequisite(s): ENG 101 and ANTH 101. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

### **ANTH 311 - Cultural Resources Management**

Examines the growth of Cultural Resources Management in archaeology, the laws that led to its development, and its impact on the field of archaeology. Prerequisite(s): ANTH 105. 3 credit(s)

### **ANTH 330 - Cultures of Exploitation, Slavery, and Terrorism**

Anthropology is in an ideal position to examine contemporary practices and historical context of global human exploitation, slavery, and terrorism. We explore human control (nations, communities, individuals) through the lens of political economy, and examine how these practices, though detrimental to individuals, can be integral to institutional systems. Prerequisite(s): ANTH 101 or ANTH 105. 3 credit(s)

### **ANTH 331 - A Global Crisis: Food, Human Health, and Climate**

By 2050, the world population is expected to reach nine billion. Those billions will seek food, water, energy, land, and other limited resources. This course provides students a global overview of food production, human health, and climate change, and offers lessons from the past. Prerequisite(s): ANTH 101 or ANTH 105 or GEOL 110. 3 credit(s)

### **ANTH 360 - Dogs, Cats and Other Beasts: Anthropology of Animals**

This course explores the connections between humans and other animals. Animals have played important roles in human evolution, and serve as reflections of the societies in which they are kept. Topics include animal domestication, cross-cultural treatment of pets, and the growing emotional and health benefits people derive from their dog. Prerequisite(s): ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102. 3 credit(s)

### **ANTH 361 - Making Mankind: Sex, Status, and Male Studies**

This class undertakes an integrative account of what it means to be a man. We draw upon comparisons with other animals, the physiology of social behavior, and cross-cultural accounts of masculinity, all within an overarching evolutionary perspective. Topics include friendship, sexuality, politics, violence, education, work, sports, fatherhood, and health. Prerequisite(s): ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102 or similar. 3 credit(s)

### **ANTH 365 - Bones, Bodies and Trauma: Forensic Studies in Anthropology**

This course reviews methods used by anthropologists, coroners, and medical examiners to study human skeletal remains. Age at death, sex, height, physique, occupation, nutrition, and health can be "read" from dry bones. Through use of case studies, these methods provide identity and patterns of trauma useful in a legal setting. Prerequisite(s): ANTH 102 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102 or similar. 3 credit(s)

### **ANTH 371 - Youth Languages**

Examination of language use among youth across the globe. How youth, from different countries, including Slovenia, Japan, Brazil, Indonesia, use language in divergent ways to construct identities and social boundaries. Major topics include youth as a life stage, hip-hop as globalizing linguistic practice, and youths' impact on changing language use. Prerequisite(s): ANTH 101 or ANTH 106. 3 credit(s)

### **ANTH 400C - Native Americans of the Southwest**

Explores the cultures of Native American groups living in the Southwestern United States. Examines tribal relationships with landscapes, other tribal groups, and non-Native peoples. Native American beliefs, social organization, and history are explored, as are some current conflicts and challenges faced by tribal members. Prerequisite(s): ANTH 101 or ENG 101 or SOC 101 or SOC 102 or HIST 101 or HIST 102 or HIST 110. Note(s): Satisfies multicultural requirement. 3 credit(s)

### **ANTH 403 - Anthropology of Women and Men**

Examines non-western societal forces that shape the way men and women conceptualize the opposite sex. Looks at what constitutes gender as it is manifested in public and private displays of thought, reflection, and action. Explores numerous contemporary non-western cultures to highlight men and women's interaction around the globe. Prerequisite(s): ANTH 101 and ENG 101. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

### **ANTH 409 - Economic Anthropology**

Comparative study of preliterate and peasant economic systems, with particular attention paid to the relation of these systems to the social and cultural arrangements of these societies. Prerequisite(s): ANTH 101. Note(s): Satisfies Foreign Culture Requirement. This course is cross-listed with ANTH 609. Credit at the 600-level requires additional work. 3 credit(s)

### **ANTH 411 - Buddhism and Culture**

Explores how different forms of Buddhism are practiced, with an emphasis on how Buddhism is practiced in the United States. Focuses on the ways in which religious practices are embedded in, and shaped by, culture. Prerequisite(s): ENG 101 and ANTH 101. Note(s): Satisfies multicultural requirement. 3 credit(s)

### **ANTH 417 - Evolution & Culture: 'Darwinian' models of culture**

Humans depend on complex cultures for their survival. Why it is the case, how it is made possible and how fundamentally culture affects humans have always been essential focuses of the anthropological research. The courses will present the main models of cultural evolution found currently in the anthropological literature. Prerequisite(s): ANTH 101. Note(s): This course is cross-listed with ANTH 617. Credit at the 600-level requires additional work.

### **ANTH 420 - Magic, Witchcraft, and Religion**

Examines the ways non-western people experience religion in official and unofficial domains. Provides a conceptual framework for analyzing the ways cultures outside the U.S. organize reality to gain an awareness of the interrelationship between cosmology, religion, and personhood and an appreciation of the cultural diversity found around the world. Prerequisite(s): ANTH 101. Note(s): Satisfies International and Foreign Culture Requirement. This course is cross-listed with ANTH 620. Credit at the 600-level requires additional work. 3 credit(s)

### **ANTH 422 - Psychological Anthropology**

Examines how culture influences the development of character and conduct in non-western societies. Provides cross-cultural research findings on socialization, aggression, sexual behavior, mental illness and social pathology. Research findings from small-scale and complex societies from around the globe are evaluated. Prerequisite(s): ANTH 101 and ENG 101. Note(s): Satisfies International and Foreign Culture Requirement. This course is cross-listed with ANTH 622. Credit at the 600-level requires additional work. 3 credit(s)

### **ANTH 426 - Medical Anthropology**

(Same as NURS 474.) Overview of medical anthropology, examines disease and human evolution, ecology of disease, and culture-centered approaches in the field, including ethnomedicine, healers in global perspective, and medicine practiced in clinical and public health settings in societies around the world. Prerequisite(s): ANTH 101 or ANTH 102. Note(s): Satisfies International and Foreign Culture Requirement. This course is cross-listed with ANTH 626. Credit at the 600-level requires additional work. 3 credit(s)



**ANTH 427 - Cultures and Cognition**

The course focuses on the interactions between culture, cognition and behavior. It explores a variety of non-western cultures to identify how social and psychological perspectives are formed and influence behavior. Models and case studies found in social sciences are used to discuss the relationship between cognition and cultural behaviors. Prerequisite(s): ANTH 101 or ANTH 102 or ANTH 105. Note(s): This course is cross-listed with ANTH 627. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 428 - Signifying Identities: Ethnicity, Nationality, Gender, and Class**

This course approaches identity formation as a cultural process, bringing together the many dimensions of ethnicity, nationality, gender, and class in the United States. The primary aim of the course is to examine how we are self-making and being made—how identities are constructed, felt, communicated, and negotiated. Prerequisite(s): ANTH 101 and ENG 101. 3 credit(s)

**ANTH 429 - Food and Identity**

Food sustains us; culture influences what and how we eat. Food and culture play a crucial role in our identity formation. This course explores the intersection of food, identity and globalization, in particular, how through the process of food production, preparation, and consumption, people develop relationships with themselves and others. Prerequisite(s): ANTH 101 and ENG 101. 3 credit(s)

**ANTH 430 - Anthropology and Ecology**

Focuses on the biocultural processes by which people adapt to their environments around the world. Human genetic, developmental and behavioral responses to environments considered across a range of cultural contexts. Topics include human growth, reproduction, diet, disease, resource use and sociopolitical structures. Prerequisite(s): ANTH 102. Note(s): Satisfies International Requirement. This course is cross-listed with ANTH 630. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 434 - Ethnohistory**

Methodological study applying anthropological concepts to early written sources and recorded oral tradition. Cross-cultural comparisons. Prerequisite(s): ANTH 101. Note(s): This course is cross-listed with ANTH 634. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 436 - History of Anthropology**

History of the intellectual developments within anthropology. Prerequisite(s): ANTH 101 and upper-division standing. Note(s): This course is cross-listed with ANTH 636. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 438 - Ethnographic Field Methods**

Surveys methods and techniques of field work. Students do weekly ethnographic projects and write short reports. Prerequisite(s): One of the following: ANTH 101, ANTH 106, PSY 101, PSY 102, SOC 101. Note(s): This course is cross-listed with ANTH 638. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 440A - Archaeology of North America**

Examines the prehistoric occupation of North America from the entry of Native Americans into North America to the arrival of the Spaniards. Discusses early hunter-gatherers, the introduction of agriculture, the development of villages, and the more complex societies that developed in some areas. Prerequisite(s): ANTH 105. 3 credit(s)

**ANTH 440B - Archaeology of the Great Basin**

Explores the prehistory of the Great Basin and surrounding areas, including the Mojave Desert. Examines the Paleoindian, Archaic, and later prehistoric occupation of the region, focusing on the evidence archaeologists use to reconstruct past behavior and how the environment influenced prehistoric peoples in the area. Prerequisite(s): ANTH 105. Note(s): This course is cross-listed with ANTH 640B. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 440C - Archaeology of the Southwest**

Prehistory of the American Southwest, focusing on development of the Anasazi, Hohokam and Mogollon cultures and their antecedents 2000 B.C. to A.D. 1500. Prerequisite(s): ANTH 105 or upper-division standing. Note(s): This course is cross-listed with ANTH 640C. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 441B - Near Eastern and Mediterranean Prehistory**

Reviews Near Eastern and Mediterranean archaeology from the earliest evidence of humans in the region through the origins and development of farming and food production. Examines foundations for civilization in Egypt and Mesopotamia and the colonization of islands of the Mediterranean Sea. Prerequisite(s): ANTH 105 and upper-division standing. Note(s): Satisfies Foreign Culture Requirement. This course is cross-listed with ANTH 641B. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 441C - Peoples and Cultures of Ancient Near East**

Examines the background of the contemporary Middle East from an archaeological perspective, starting with the earliest villages and culminating with the civilizations of ancient Mesopotamia, Egypt, the Holy Land, and the Mediterranean. Prerequisite(s): ANTH 101 or ANTH 105. Note(s): Satisfies Foreign Culture Requirement. 3 credit(s)

**ANTH 443 - Environmental Archaeology**

Examines human adaptations to various environments, techniques from the environmental sciences. Analysis of ancient human and environmental interactions stressing arid lands. Human impacts upon the landscape, constraints imposed by ecological variables, and techniques used in environmental reconstruction. Prerequisite(s): ANTH 105 and upper division standing. Note(s): This course is cross-listed with ANTH 643. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 444 - Bioarchaeology**

Method and theory for the study of human remains in archaeological contexts. Prerequisite(s): ANTH 101 or ANTH 102. Note(s): This course is cross-listed with ANTH 644. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 447 - Archaeological Field Methods**

Examines the field methods used by archaeologists. Focuses on two cornerstones of fieldwork: survey and excavation. Includes hands-on activities. New techniques for doing fieldwork discussed. Prerequisite(s): ANTH 105. 3 credit(s)

**ANTH 448B - Archaeological Field Practicum**

Field course in archaeological methods. Instruction in archaeological field techniques through survey and/or excavation. Prerequisite(s): Consent of instructor. May be repeated once for a maximum of six credits. 3-6 credit(s)

**ANTH 449A - Ceramic Analysis in Archaeology**

Introduction to the laboratory analysis of archaeological ceramics. Emphasizes theories and techniques used to reconstruct past human behavior from the study of prehistoric and historic ceramics. Prerequisite(s): ANTH 105. Note(s): This course is cross-listed with ANTH 649A. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 449B - Lithic Artifact Analysis**

Designed to provide general background on lithics and lithic analysis. Enables lithic technology, typology, and interpretations of lithic assemblage variability. Prerequisite(s): ANTH 105. Note(s): This course is cross-listed with ANTH 649B. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 449D - Zooarchaeology Laboratory**

Formerly Listed as ANTH 449C. Enables students to identify, document, analyze, interpret, and report archaeological animal bone assemblages. Addresses theoretical, methodological, and analytical issues that are significant in designing and conducting zooarchaeological research. Prerequisite(s): ANTH 105. Note(s): This course is cross-listed with ANTH 649D. Credit at the 600-level requires additional work. 3 credit(s)



**ANTH 455 - Archaeological Theory**

Surveys major theoretical approaches used in archaeology. Examines historical development of these theories and discusses their practical application. Prerequisite(s): ANTH 105 and upper-division standing. Note(s): This course is cross-listed with ANTH 655. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 456 - Archaeology of Technology**

Explores the methodological and theoretical developments in archaeological research on technology and the challenges of connecting materials with human behavior and intent in the past. Prerequisite(s): ANTH 105. Note(s): This course is cross-listed with ANTH 656. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 457 - Archaeology of Complex Societies & Archaic States**

This course focuses on the archaeology of complex societies and archaic states. We probe the origins and development of the archaic states in Mesopotamia, Egypt, Indus Valley, Central Asia, China, and Mesoamerica. We “critically” review archaeologists’ “interpretations” regarding major environmental, social, political, religious, and economic factors as prime movers. Prerequisite(s): ANTH 101, ANTH 102 or ANTH 105. 3 credit(s)

**ANTH 458 - Origins of Inequality: A Cross-cultural Perspective**

This course uses origins of inequality to understand how societies and their culture developed differently across time and space. A cross-cultural emphasis enables the student to appreciate the factors responsible for the rise of different modes of sociopolitical organization around the globe and to realize the complexity of human experience. Prerequisite(s): ANTH 101 or ANTH 105. Note(s): This course is cross-listed with ANTH 658. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 460 - Primate Evolution**

Detailed examination of the fossil record of primate and human evolution to assess taxonomy, locomotor strategies, and diet. Topics emphasized include the evolution of apes, the origin of our lineage, bipedalism, brain and language evolution, and the origin of modern humans. Prerequisite(s): ANTH 102. Note(s): This course is cross-listed with ANTH 660. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 462 - Human Osteology**

Utilization of physical anthropological methods of bone analysis applied to the identification of human and non-human skeletal remains. Prerequisite(s): ANTH 102. Lab/Lecture/Studio Hours. Two hours lecture two hours lab. Note(s): Lab fee required. This course is cross-listed with ANTH 662. Credit at the 600-level requires additional work.. 4 credit(s)

**ANTH 464 - Dental Anthropology**

Dental morphology, growth and development, and dental variability in modern populations. Techniques used to reveal information about past diets, health, and behavior. Forensic odontology. Major stages in the evolution of the dentition, with particular focus on primate and human dental evolution. Lab fee required. Prerequisite(s): ANTH 102. Note(s): This course is cross-listed with ANTH 664. Credit at the 600-level requires additional work. 4 credit(s)

**ANTH 465 - Human Growth and Aging**

Explores how humans grow, mature, and age in a variety of non-western cultures. Addresses social and biological factors that shape peoples’ decisions about when to begin reproducing, how many offspring to have, when to wean, and style of parenting, as well as those impacting physical age changes and lifespan are addressed. Prerequisite(s): ANTH 102. Note(s): This course is cross-listed with ANTH 665. Credit at the 600-level requires additional work 3 credit(s)

**ANTH 466 - Nutritional Anthropology**

(Same as NUTR 451). Provides anthropological perspective on the multifaceted nature of human relationships to food, especially regarding health, disease, and malnutrition in the contemporary world. Variety of theoretical and methodological approaches explored. Prerequisite(s): ANTH 101. 3 credit(s)

**ANTH 467 - Health and Disease in Antiquity**

(Same as NURS 473.) Covers paleopathology, or, the study of disease in ancient populations. Provides an overview of morbidity and mortality over the last 20,000 years for many different populations from around the globe. Information on disease is drawn from human skeletal and mummified remains, and from archaeological reconstructions of lifestyle and diet. Prerequisite(s): One of the following: ANTH 102, BIOL 100, BIOL 121, BIOL 189, or NURS 299 or equivalent. Note(s): This course is cross-listed with ANTH 667. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 469 - Evolution and Biology of Human Behavior**

Reviews relevant theory and primary approaches—evolutionary psychology and behavioral ecology—for investigating human behavior from an evolutionary perspective. Topics include cooperation, mate choice, parenting, pair bonding, aggression, language and culture Prerequisite(s): ANTH 102. Note(s): Satisfies International Requirement. This course is cross-listed with ANTH 669. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 471 - Evolution of Human Sexuality**

Examines human sexuality from an evolutionary perspective. Major themes include basics of evolutionary theory, comparisons with other non-human primates, cross-cultural and historical variation in human sexuality and consideration of the neuroendocrine bases of sexual behavior. Topics include sexual selection, mating systems, and sexual orientation. Prerequisite(s): ANTH 102. Note(s): This course is cross-listed with ANTH 671. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 472 - Hormones and Behavior**

Covers the dynamic field of human hormones and behavior. Emphasis is given to human naturalistic and clinical populations. Examples cover a range of topical interests, including sexual behavior, parenting, aggression, and the stress response. Prerequisite(s): ANTH 102, PSY 101 or consent of instructor. Note(s): This course is cross-listed with ANTH 672. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 473 - Anthropology of Violence**

This course is an overview on the history of aggression, violence and trauma in human groups. Interpersonal and institutional forms of violence are examined from an anthropological perspective. The goal of the course is to explore a number of theoretical frameworks used by anthropologists to understand violence. Prerequisite(s): ANTH 101 or ANTH 102 or ANTH 105 or ANTH 106 or CRJ 104 or CRJ 106 or PSY 101 or PSY 102 or SOC 101 or SOC 102. Note(s): This course is cross-listed with ANTH 673R. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 475 - Evolutionary Medicine**

This course provides an introduction to evolutionary medicine that emphasizes the interplay between human evolutionary history and adaptation. Examples are drawn from societies around the world. Topics include growth, reproduction, diet, activity patterns, aging, and infectious and chronic disease. Prerequisite(s): ANTH 102. Note(s): This course is cross-listed with ANTH 675. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 485 - Language and Culture**

Examines the interaction of language and culture, focusing on basic aspects of linguistics, models for the study of language use, and intersections of language with gender, power, and status cross-culturally. Prerequisite(s): ANTH 106. Note(s): Satisfies Foreign Culture Requirement. This course is cross-listed with ANTH 685. Credit at the 600-level requires additional work.. 3 credit(s)

**ANTH 486 - Language and Gender**

Examines from an anthropological perspective the ways in which language and gender intertwine. Explores how language emerges from, reproduces, and challenges ideas of gender and gendered practices cross-culturally. Topics covered include interaction of gender with race, identity and class in language use. Prerequisite(s): ANTH 106 and upper-division standing. Note(s): This course is cross-listed with ANTH 686. Credit at the 600-level requires additional work. 3 credit(s)

**ANTH 490 - Study in Anthropology Abroad**

Part of International Studies Program. Topics vary from semester to semester. Prerequisite(s): Approval of program director required. May be repeated to a maximum of six credits. Note(s): Satisfies Foreign Culture Requirement. 1-3 credit(s)

**ANTH 491 - Internship in Anthropology**

Supervised, on-site research in various participating local organizations to provide practical, applied experience from an anthropological perspective, culminating in a written report. Joint supervision of activity supervisor and instructor. Prerequisite(s): 3.00 GPA, admission to the major, completion of nine credit hours of 300- or 400-level courses within the major, and consent of instructor. May be repeated to a maximum of six credits. Note(s): S/F grading only. 3 credit(s)

**ANTH 497A - Senior Thesis I**

Provides experience in the definition of research problems, research methods, and presentation of research findings in written and oral form. Year-long course graded at the end of the second semester. Prerequisite(s): Senior standing, consent of advisor, and consent of instructor. 3 credit(s)

**ANTH 497B - Senior Thesis II**

Provides experience in the definition of research problems, research methods, and presentation of research findings in written and oral form. Year-long course graded at the end of the second semester. Prerequisite(s): Senior standing, consent of advisor, and consent of instructor. 3 credit(s)

**ANTH 499 - Independent Research**

Research or reading to be carried out with the supervision of the instructor. Prerequisite(s): Consent of instructor. Note(s): May be repeated to a maximum of six credits. 1-3 credit(s) English

## Department of English

***Purpose and Focus***

The Department of English offers courses of study leading to the degrees of Bachelor of Arts, Master of Arts, Master of Fine Arts in Creative Writing, and the Ph.D. Our undergraduate program offers a first-rate curriculum at once focused and flexible, intellectually stimulating and practically valuable. Through required courses in the literature of the English-speaking world, in English language and linguistics, and in literary theory, our majors acquire a unique appreciation of the roles language and literature play in shaping the world and its diverse cultures. In relatively small classes devoted to reading, discussing, and writing about literary texts and the fundamental questions they raise, our graduates hone those skills in interpretation, argumentation, and oral and written communication most essential to success in every professional or academic pursuit. They also develop the curiosity and creativity, the compassion and the cultural and historical perspective essential to an engaged and engaging life.

To help majors and non-majors alike define and meet their own personal and professional goals, the department also proudly offers a rich array of elective courses in literature in translation; in creative, business, and technical writing; in professional communication, composition, and editing; as well as classes cross-listed with the African-American, Asian, Classical, Film, and Gender and Sexuality Studies programs.

Finally, the English Department invites students into an intellectual and artistic community that extends well beyond the classroom through our sponsorship of numerous public lectures and literary readings, our production of four journals devoted to literary criticism and creative writing, and our close relationship with Black Mountain Institute and a range of other literary and cultural organizations.

***Degree Objectives and Learning Outcomes***

Upon completion of the B.A. in English, students will be able to:

- demonstrate familiarity with major authors, works, genres, and movements in British and American literature.
- demonstrate the ability to read, write and think critically.
- demonstrate an understanding, of English language and linguistics.
- demonstrate knowledge of theoretical and critical methods.
- demonstrate knowledge of multi-ethnic literature.

***Accreditation***

Northwest Commission on Colleges and Universities

***Undergraduate Major***

English

***Advisement***

For general academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Students with questions and concerns about the department's undergraduate course offerings, programs, and requirements or about post-graduation options and careers should contact the Undergraduate Coordinator, who can also approve exceptions and substitutions when warranted. Failure to seek academic advising may result in delays of anticipated date of graduation.

## English Major- Bachelor of Arts (BA)

Please see the UNLV English Department web page at <http://english.unlv.edu> for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at <http://liberalarts.unlv.edu/WAC/>.

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. Demonstrate familiarity with major authors, works, genres, and movements in British and American literature.
2. Demonstrate the ability to read, write, and think critically.
3. Demonstrate an understanding of English language and linguistics.
4. Demonstrate knowledge of theoretical and critical methods.
5. Demonstrate knowledge of multi-ethnic American literature.

### University Graduation Requirements

- Please see Graduation Policies for complete information
- English Degree Requirements ..... Total: 120 Credits  
General Education Requirements - Subtotal: 35-40  
First-Year Seminar ..... Credits: 3  
English Composition ..... Credits: 6
- ENG 101 - Composition I
- and
- ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 3-6  
Mathematics ..... Credits: 3  
Distribution Requirement ..... Credits: 18-19
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
    - Automatically satisfied by Major requirements
  - Social Science: 9 credits
  - Life and Physical Sciences and Analytical Thinking: 9-10 credits
    - PHIL 102 - Critical Thinking and Reasoning
    - and two courses from Life and Physical Sciences category: at least one must be a lab.
- Multicultural and International  
(see note 1 below)  
Multicultural, one 3 credit course required  
International, one 3 credit course required
- These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>
- Major Requirements - English Major ..... Subtotal: 60  
Foreign Language ..... Credits: 9  
Humanities (included in Foreign Language)  
Fine Arts ..... Credits: 6  
English Major Requirements Credits: 45  
(see note 2 below)  
Writing about Literature ..... Credits: 3
- ENG 298 - Writing About Literature
- Literary Theory ..... Credits: 3
- ENG 303 - Introduction to Literary Theory and Criticism

- Two British Literature Surveys ..... Credits: 6
- ENG 235 - Survey of English Literature I
- and
- ENG 236 - Survey of English Literature II
- or
- ENG 449A - British Literature I
- and
- ENG 449B - British Literature II
- Two American Literature Surveys ..... Credits: 6
- ENG 241 - Survey of American Literature I
- and
- ENG 242 - Survey of American Literature II
- or
- ENG 451A - American Literature I
- and
- ENG 451B - American Literature II
- English Language and Linguistics ..... Credits: 3
- ENG 411A - Linguistics for English Majors
- or
- ENG 411B - Principles of Modern Grammar
  - ENG 414A - History of the English Language
- or
- ENG 414B - Development of American English
- or
- ENG 415B - Old English I
- (this course may be used to satisfy the English Language and Linguistics requirement OR to satisfy three credits of the Foreign Language requirement but NOT both.)
- English Electives ..... Credits: 24  
Eight 400-level courses. Must include at least two courses in literature prior to 1800 and one course in multi-ethnic literatures.
- Electives ..... Credits: 22-24  
Total Credits: ..... 120
- English Major: Creative Writing Concentration
- English majors may earn a Concentration in Creative Writing by completing the following 9 credits as part of their degree:
- ENG 205 - Introduction to Creative Writing: Fiction and Poetry
  - ENG 402A - Advanced Creative Writing (6 credits)
- English Major: Professional Writing Concentration
- English majors may earn a Concentration in Professional Writing by completing the following 12 credits as part of their degree:
- ENG 407A - Fundamentals of Business Writing
- or
- ENG 407B - Fundamentals of Technical Writing
  - ENG 400 - Document Design
  - ENG 406B - Electronic Documents and Publications
  - ENG 407C - Advanced Professional Communication

### Notes

1. English courses already approved to satisfy the multicultural requirement include: ENG 290, ENG 291, ENG 292, ENG 494A, ENG 495A, ENG 495B, ENG 496A, ENG 496B and ENG 496C.
2. ENG 101 and ENG 102 (or their equivalents) are prerequisites for all English courses except creative writing courses.

### Creative Writing Minor

- Courses include ..... Total Credits: 21
- ENG 205 - Introduction to Creative Writing: Fiction and Poetry
  - ENG 402A - Advanced Creative Writing (6 credits)
- and four additional 400-level English courses

## English Minor

Courses Include ..... Total Credits: 24

- ENG 449A - British Literature I
- ENG 449B - British Literature II
- ENG 298 - Writing About Literature
- ENG 451A - American Literature I
- ENG 451B - American Literature II

and three additional 400-level English courses.

## Professional Writing Minor

Courses include ..... Total Credits: 21

- ENG 407A - Fundamentals of Business Writing

or

- ENG 407B - Fundamentals of Technical Writing
- ENG 400 - Document Design
- ENG 407C - Advanced Professional Communication
- ENG 406B - Electronic Documents and Publications

and three additional English courses (200-level or above)

## English

### ENG 98 - Preparatory Composition

Writing-intensive workshop course for students with low placement scores to help them learn and practice college-level critical reading and essay writing strategies. Note(s): Credit for this course does not count toward the total needed for graduation. S/F grading only. 3 credit(s)

### ENG 101 - Composition I

Evidence-based, writing intensive course designed to improve critical thinking, reading, and writing proficiencies through guidance in writing the thesis-driven essay. Students develop strategies for turning their experience, observations, and analyses into evidence suitable for academic writing. Emphasis on writing the short, focused, concretely developed college paper. Prerequisite(s): Qualifying score on a placement exam (see Admission Information, Placement Examination.) 3 credit(s)

### ENG 101E - Composition I Extended I

The first part of the ENG 101E/101F sequence, an alternative to ENG 101 for students requiring additional instruction in critical thinking, reading, and writing the thesis-driven essay. Prerequisite(s): Placement exam. Note(s): Completion of both ENG 101E and 101F fulfills ENG 101 requirement. S/U grading only. 3 credit(s)

### ENG 101F - Composition I Extended II

ENG 101F is the second part of the ENG 101E/101F sequence, an alternative to ENG 101 for students requiring additional instruction in critical thinking, reading, and writing the thesis-driven essay. Prerequisite(s): Satisfactory completion of ENG 101E. Note(s): Completion of both ENG 101E and 101F fulfills ENG 101 requirement. 3 credit(s)

### ENG 102 - Composition II

Builds on the critical thinking, reading, and writing skills developed in ENG 101. Students learn the processes necessary for collecting and incorporating research material into their writing. They learn to cite and document research sources and how to develop arguments and support them with sound evidence. Prerequisite(s): ENG 101, ENG 101F, or equivalent. Note(s): Research paper and library orientation required. 3 credit(s)

### ENG 113 - Composition I for International Students

For non-native speakers of English to develop fluency and confidence in writing by extensive practice in the narrative, descriptive, and expository modes of discourse. Prerequisite(s): Michigan placement test score of 76+ and score of 40+ on writing sample, or TOEFL score of 500+ and Test of Written English score of 5+. Note(s): Satisfies the English 101 requirement for international students. Not intended for native speakers of English. No duplicate credit for ENG 101. 3 credit(s)

### ENG 113E - Composition I for International Students Extended I

ENG 113E is first part of two-term sequence. Instruction in narrative, descriptive, expository writing for NNS students better served with a two-semester format for mastering academic writing. Prerequisite(s): Placement (TOEFL CBT 167, MTELP 70, or IBT 60 and TWE 4 or equivalent). Note(s): ENG 113E must be completed prior to ENG 113F, which fulfills the NSHE and UNLV freshman comp requirement. S/F grading only. 3 credit(s)

### ENG 113F - Composition I for International Students Extended II

ENG 113F is the second part of the ENG 113E/F sequence, an alternative to ENG 113. Limited to non-native speakers, the course focuses on critical thinking and the thesis driven essay. Completion of ENG 113E/F satisfies the requirement for Freshman Composition I. Prerequisite(s): Satisfactory completion of ENG 113E and instructor approval. Letter grade. 3 credits(s).

### ENG 114 - Composition II for International Students

Continuation of ENG 113 with emphasis on critical thinking and practice in persuasive discourse, as applied to selected literary texts. Prerequisite(s): ENG 113. Note(s): Intended to meet the needs of non-native speakers of English. Library orientation required. Satisfies the ENG 102 requirement for international students. 3 credit(s)

### ENG 203 - Introduction to Literary Study

Critical examination of selected literary works, emphasizing the techniques of literary analysis. 3 credit(s)

### ENG 205 - Introduction to Creative Writing: Fiction and Poetry

Workshop designed to hone students' skills in writing fiction or poetry. May be repeated to a maximum of six credits. Note(s): S/F grading only. 3 credit(s)

### ENG 206 - Intermediate Composition

Builds on writing competencies developed in ENG 101 and ENG 102. Includes more advanced rhetorical strategies, including the use of visual rhetoric, and explores a variety of academic, professional, and public genres. 3 credit(s)

### ENG 210 - Introduction to Semantics

Forms of linguistic expression through a survey of the principles of general semantics. 3 credit(s)

### ENG 211 - Introduction to Linguistics

Development and fundamental concepts of the linguistic approach to grammar and language analysis. 3 credit(s)

### ENG 231 - World Literature I

Introduces students to world masterworks from antiquity through the mid-seventeenth century. (Fulfills the university Second-Year Seminar requirement). Prerequisite(s): ENG 101 and ENG 102. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

### ENG 231E - World Literature for Exploring Majors

Introduces students to world masterworks from antiquity through the present day. Designed for Academic Success Center students. Prerequisite(s): ENG 101 and ENG 102 or equivalent. Note(s): Fulfills the university Second-Year Seminar (SYS) requirement. 3 credit(s)

### ENG 231S - World Literature for the Sciences

Introduces students to world masterworks from antiquity through the present day. Designed for College of Sciences students. Prerequisite(s): ENG 101 and ENG 102 or equivalent. Note(s): Fulfills the university Second-Year Seminar (SYS) requirement. 3 credit(s)

### ENG 232 - World Literature II

Introduces students to world masterworks from the mid-seventeenth century to the present. Fulfills the university Second-Year Seminar (SYS) requirement. Prerequisite(s): ENG 101 and ENG 102. Note(s): Fulfills the Second Year Seminar requirement. 3 credit(s)

### ENG 232A - World Literature for the School of Architecture

Introduces students to world masterworks from the mid-seventeenth century through the present day. Designed for School of Architecture students. Fulfills the university Second-Year Seminar (SYS) requirement. Prerequisite(s): ENG 101 and ENG 102 or equivalent, and First-Year Seminar. 3 credit(s)



**ENG 235 - Survey of English Literature I**

Major figures and movements in English literature from the beginnings to 1800. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 236 - Survey of English Literature II**

Major figures and movements in English literature from 1800 to the present. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 241 - Survey of American Literature I**

Major figures and movements in American literature from the Colonial Period to the Civil War. Prerequisite(s): Prerequisite(s): ENG 101 and ENG 102 ENG 101 and ENG 102. 3 credit(s)

**ENG 242 - Survey of American Literature II**

Major figures and movements in American literature from the Civil War to the present. 3 credit(s)

**ENG 243 - Introduction to the Short Story**

Elements of the short story, its variety of forms, representative authors. Prerequisite(s): ENG 101 and ENG 102 3 credit(s)

**ENG 252 - Introduction to Drama**

Elements of drama, its basic forms, representative plays of world drama. 3 credit(s)

**ENG 253 - Introduction to Contemporary Drama**

American, English, and European drama of the period since World War II, including such writers as Miller, Albee, Ionesco, and Pinter. 3 credit(s)

**ENG 261 - Introduction to Poetry**

Elements of poetry, its basic types and forms, representative poets in English. 3 credit(s)

**ENG 271 - Introduction to Shakespeare**

Selected works by Shakespeare. Specifically designed for non-English majors. Note(s): English majors should enroll in ENG 434A or ENG 434B. 3 credit(s)

**ENG 275 - Contemporary Literature**

Reading of recent literature of various types to acquaint students with contemporary writers. 3 credit(s)

**ENG 278 - Readings in the Contemporary Novel**

Study of the post-World War II novel, its development, and direction. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 290 - Introduction to African-American Literature**

Introduction to the poetry, fiction, drama, and non fiction of African-Americans. Note(s): Same as AAS 290. 3 credit(s)

**ENG 291 - Slave Narratives, Literature, and Imagery**

Interdisciplinary examination of American slavery through the narrative form, including autobiographical, literary, and cinematic sources. Includes slave narratives and novels, as well as films. Focuses on the ways American slavery is interpreted through these and other popular forms. Prerequisite(s): ENG 101 and ENG 102. Note(s): Same as AAS 291. 3 credit(s)

**ENG 292 - Introduction to Chicano Literature**

Introduction to Chicano literature through a study of classic and contemporary works of prose, poetry, and theater. Intended for non-English majors. Prerequisite(s): ENG 101 and ENG 102 3 credit(s)

**ENG 298 - Writing About Literature**

A writing-intensive introduction to English studies, including the genres of poetry, fiction, and drama and the basic methods and terms of analysis. Primarily designed for English majors and minors and for Education majors with an English emphasis. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 303 - Introduction to Literary Theory and Criticism**

Survey of literary theory and criticism from Plato and Aristotle to the present. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 400 - Document Design**

Explores fundamental theories and practices of designing professional documents. Considers how design is influenced by genre and rhetorical context. Prerequisite(s): ENG 101 and ENG 102. Note(s): Students will use appropriate tools to design printed documents. 3 credit(s)

**ENG 401A - Advanced Composition**

Explores writing and literacy. Students will develop greater awareness of themselves as strategic writers by studying and creating texts for different audiences, purposes and contexts in a variety of styles and genres. Prerequisite(s): ENG 102. May be repeated to a maximum of six credits with consent of instructor. Note(s): This course is cross-listed with ENG 601A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 402A - Advanced Creative Writing**

Advanced workshop designed to hone students' skills in writing fiction or poetry. Prerequisite(s): ENG 205. May be repeated to a maximum of six credits. Note(s): S/F grading only. This course is cross-listed with ENG 602A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 405B - Research and Editing**

Library research, as distinct from experimental or laboratory research, and report writing and editing for students in all disciplines. Prerequisite(s): Consent of instructor. Note(s): This course is cross-listed with ENG 602B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 405C - Writing for Publication**

Intensive study of the business of writing, designed to serve the needs of the freelance writer. Includes discussion of literary markets and popular literary genres. Prerequisite(s): ENG 401A. Note(s): This course is cross-listed with ENG 602B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 406B - Electronic Documents and Publications**

Explores advanced principles of information architecture and content development for web-based documents and publications. Students will plan, design, develop, edit and publish in a variety of web-based genres. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 407A - Fundamentals of Business Writing**

Examines the rhetorical principles and composing practices necessary for writing effective business letters, memos, and reports. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 407B - Fundamentals of Technical Writing**

Examines the rhetorical principles and composing practices necessary for writing effective technical documents and the role of writing in technical and industrial settings. Note(s): This course is cross-listed with ENG 607B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 407C - Advanced Professional Communication**

Analyzes a range of professional writing topics, applying rhetorical theories and techniques to specific professional writing situations, especially within organizations. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 409A - Visual Rhetoric**

Study of the persuasive and aesthetic effects that visual elements have on readers/users in print and online documents. Visual elements include typography, graphics, images, color, paper or screen textures, alignment, and multimedia. Note(s): This course is cross-listed with ENG 609A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 409B - Rhetoric and the Environment**

Studies discourse about environmental topics using classical and contemporary rhetorical theory. The focus is on non-fiction prose and specialized genres including websites and technical documents. Students will learn a theoretical framework to analyze environmental discourse, and also gain practice in producing works of environmental rhetoric. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 609B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 410A - Semantics**

Study of meanings in the English language using the principles of discourse analysis, speech act theory, and pragmatics: analyzing advertising, political rhetoric, interpersonal relationships, and literature. 3 credit(s)

**ENG 411A - Linguistics for English Majors**

Applies the principles of linguistics to the analysis of English poetry and prose. 3 credit(s)

**ENG 411B - Principles of Modern Grammar**

Surveys the structure of contemporary English grammar. Examines the workings of the English language from a linguistic perspective, concentrating primarily on sentence structure. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 611B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 414A - History of the English Language**

History and development of the English language from its beginnings. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 614A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 414B - Development of American English**

Introduction to the history of the English language in America and to the regional and social varieties of English which have resulted from this development. Includes survey of distinctively American vocabulary, pronunciation, spelling, and syntax. Note(s): This course is cross-listed with ENG 614B. Credit at the 600-level requires additional work 3 credit(s)

**ENG 415B - Old English I**

Study of the language and literature of England in the Anglo-Saxon period. After a review of the grammar, students will read basic prose and poetry in Old English. English majors may substitute this course for one semester of foreign language. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 615B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 415C - Old English II**

Continuation of the study of Old English through the reading of more complex literary texts such as Beowulf, the poems of the Exeter Book, the writings of Aelfric, etc. Note(s): This course is cross-listed with ENG 614C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 416C - Special Problems in English**

Workshops in language and literature. May be repeated to a maximum of 12 credits. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of 12 credits. Note(s): This course is cross-listed with ENG 616C. Credit at the 600-level requires additional work. 1-6 credit(s)

**ENG 422A - Topics in Literary Theory**

Selected topics and issues in literary and cultural theory. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of six credits. Note(s): This course is cross-listed with ENG 622A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 423A - Modern Literature**

Survey of modern writing, with emphasis on the sources of contemporary literary theories and techniques. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 425A - Themes of Literature**

Study of themes, ideas, or literary attitudes significant in literary history. May be repeated to a maximum of nine credits. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of nine credits. Note(s): This course is cross-listed with ENG 625A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 426A - Religion and Literature**

Insights and relationships of religious themes, beliefs, and assumptions as they may bear upon the analysis of literary texts. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 626A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 426B - Mythology**

Study of mythologies, such as Greek, Roman, and Native American, in cultural context. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 626B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 427B - Gender and Literature**

(Same as WMST 427B.) Study of gender and literature through the ages. Focus may be aesthetic, historical, or thematic. Prerequisite(s): ENG 101 and ENG 102. May be repeated for a maximum of six credits. Note(s): Same as WMST 427B. Topics may vary. This course is cross-listed with ENG 627B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 429A - Early American Humor**

Investigation of the writings of American humorists from the eighteenth century through Mark Twain. Examines works by anonymous writers as well as humorists of New England, the Old Southwest, and the Far West. Note(s): This course is cross-listed with ENG 629A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 429B - Modern American Humor**

Investigation of the writings of American humorists from the mid-nineteenth century to the present, including the works of Mark Twain, James Thurber, Dorothy Parker, Woody Allen, and Tom Robbins. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 629B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 429C - Literature of the American West**

Study of literature of the American West. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 629C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 430A - Major Figures in British Literature**

Seminar on one or more major figures in English literature. May be repeated to a maximum of six credits. Note(s): This course is cross-listed with ENG 630A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 432A - Chaucer**

Study of the works of Geoffrey Chaucer, with emphasis on the Canterbury Tales. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 632A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 434A - Shakespeare: Tragedies**

Intensive study of Shakespeare's major tragedies. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 634A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 434B - Shakespeare: Comedies and Histories**

Intensive study of Shakespeare's major comedies and histories. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 634B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 435A - Milton**

Intensive study of Milton's poetry and selected prose. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 635A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 436A - Major Figures in American Literature**

Seminar on one or more major figures in American literature. May be repeated to a maximum of six credits. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of six credits. Note(s): This course is cross-listed with ENG 636A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 440A - Medieval English Literature**

Study of the literature written in England from the sixth through the fifteenth century. Topics may include dream visions, romance, heroic poetry, saints' lives, etc. May be repeated to a maximum of six credits provided that the content is different. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of six credits provided that the content is different. Note(s): This course is cross-listed with ENG 640A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 440B - Gender and Early Literature**

Study of gender, sexuality, and literature from the beginning to the Early Modern period. Note(s): Topics may vary. Note(s): Same as WMST 440B. Topics may vary. This course is cross-listed with ENG 640B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 441A - The Renaissance**

Study of English literature of the sixteenth century, primarily Elizabethan. Note(s): This course is cross-listed with ENG 641A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 441B - Gender and Renaissance Literature**

Study of gender and literature in the Renaissance. Note(s): Same as WMST 440B. Topics may vary. This course is cross-listed with ENG 640B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 442A - The Seventeenth Century**

Study of English literature from 1603 to 1660. Note(s): This course is cross-listed with ENG 642A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 443A - Restoration and Augustan Literature**

Study of British literature from 1660 to 1740. Topics may include the genres of neoclassical drama and mock-epic, satire from Dryden through the Scriblerians, the periodical essay, and the birth of aesthetics. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 643A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 443C - Later Eighteenth-Century Literature**

Study of eighteenth-century British literature after 1740. Topics may include the growth in female authorship, the Johnson circle, and cultural contexts such as feminism and nationalism. Note(s): This course is cross-listed with ENG 643C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 444B - The Romantic Poets**

Major poets in the Romantic Movement. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 644B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 445B - Victorian Poetry**

Poetry of the middle and later nineteenth century. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 645B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 445C - Nineteenth-Century Prose Writers**

Major prose writers of the Romantic and Victorian periods and their intellectual and literary milieu. Note(s): This course is cross-listed with ENG 645C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 446A - Modern British Literature**

Study of British writing since 1900, including fiction, drama, and poetry. Note(s): This course is cross-listed with ENG 646A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 446B - Gender and Modern British Literature**

Study of gender and literature in the British tradition. Note(s): Same as WMST 446B. Topics may vary. This course is cross-listed with ENG 646B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 449A - British Literature I**

Major authors and works in British literature from the beginning through the eighteenth century. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 449B - British Literature II**

Major authors and works in British literature from the nineteenth century to the present. Prerequisite(s): ENG 101 and ENG 102 3 credit(s)

**ENG 451A - American Literature I**

Major figures and movements from the beginnings to the Civil War. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 451B - American Literature II**

Major figures and movements from the Civil War to the present. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 452A - American Literature, 1620-1800**

Study of American writing through 1800. Note(s): This course is cross-listed with ENG 652A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 452B - American Literature, 1800-1865**

Study of American literature from 1800 to 1865. Note(s): This course is cross-listed with ENG 652B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 453A - American Literature, 1865-1918**

Study of American literature from the Civil War through World War I. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 653A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 453B - American Literature, 1918-Present**

Study of American literature from 1918 to the present. Note(s): This course is cross-listed with ENG 653B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 454B - Gender and Modern American Literature**

(Same as WMST 454B.) Study of gender and literature in the American tradition. Prerequisite(s): ENG 101 and ENG 102. Note(s): Same as WMST 454B. Topics may vary. This course is cross-listed with ENG 654B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 460 - The American Short Story**

Survey of the short story in America from the beginnings to modern times. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 660. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 460A - Heroic Epic**

Comparative approach to the forms, themes, and manners of performance of the epic and closely related genres. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 660A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 461A - The Study of Poetry and Poetics**

Provides the student with the basic tools for the intelligent reading of poetry by extensive reading of poetry by English and American authors. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 661A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 462A - Modern British Poetry**

Study of twentieth-century British poetry since 1900. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 662A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 462C - Modern American Poetry**

Study of American poetry since 1900. Note(s): This course is cross-listed with ENG 662C. Credit at the 600-level requires additional work 3 credit(s)

**ENG 463A - Classical Drama in Translation**

Study of major Greek and Latin playwrights. Prerequisite(s): ENG 101 and ENG 102. Note(s): Same as CLA 450. This course is cross-listed with ENG 663A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 464A - English Drama to 1642**

Survey of medieval and Renaissance drama to the closing of the theaters. Note(s): This course is cross-listed with ENG 664A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 465B - Restoration and Eighteenth-Century Drama**

Survey of English drama from 1660 to 1800. Note(s): This course is cross-listed with ENG 664B & ENG 665B. Credit at the 600-level requires additional work. 3 credit(s)



**ENG 466A - Nineteenth-Century Drama**

Study of world drama in the nineteenth century. Note(s): This course is cross-listed with ENG 666A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 467A - Modern British Drama**

Study of British drama from Shaw to the present. Note(s): This course is cross-listed with ENG 667A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 467B - Modern American Drama**

Study of American drama since 1900. Note(s): This course is crosslisted with ENG 667B. Credit at the 600-level requires additional work 3 credit(s)

**ENG 470A - The British Novel I**

Study of the British novel from its origins to about 1800. Topics may include the rise of the novel from the materials of romance and realism, the formative decade of the 1740s, and the subgenres of Gothic and historical fiction. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 670A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 470B - The British Novel II**

Study of the British novel from about 1800 to 1914. Topics may include the role of serialization and the circulating library and subgenres such as the bildungsroman, the social-problem novel, and imperial Gothic. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 670B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 471A - Modern English Novel**

British fiction from Conrad to 1945. Note(s): This course is cross-listed with ENG 671A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 471B - Contemporary English Novel**

British fiction since 1945. Note(s): This course is cross-listed with ENG 671B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 473A - The Early American Novel**

Study of the development of the novel in America to the time of Twain. Note(s): This course is cross-listed with ENG 673A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 473B - The Modern American Novel**

The American novel from Twain through 1945. Note(s): This course is cross-listed with ENG 673B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 473C - The Contemporary American Novel**

The American novel since 1945. Note(s): This course is cross-listed with ENG 673C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 474A - The Modern Short Story**

The Modern Short Story. 3 credit(s)

**ENG 476A - Studies in British Film**

Study of the history of British film emphasizing analysis of a variety of films. Examines particular genres, directors, and traditions peculiar to British film and the relationship of British film to England's broader cultural development. Note(s): Same as FIS 493. 3 credit(s)

**ENG 476B - History of the American Film**

Examination of the films of major directors from D.W. Griffith in the Biograph period (1908-1912) to the present. Filmmakers such as John Ford, Howard Hawks, Orson Welles, George Cukor, Robert Flaherty, Frank Capra, Raoul Walsh, and others. Note(s): Same as FIS 494. 3 credit(s)

**ENG 477A - Film and Literature**

Comparative study of the relations of prose, poetry, and drama to the structure and themes of the cinema, from Dickens to the present. May be repeated to a maximum of six credits. Note(s): Same as FIS 495. 3-6 credit(s)

**ENG 477B - The American Hero in Film and Literature**

Traces the origins and the development of the American hero from roots in myth, folklore, and history to the 1950s. Note(s): Same as FIS 496. 3 credit(s)

**ENG 477C - Genre Studies in Film**

Individual examinations of genre structures and themes, with emphasis on the development and the history of genres. May be repeated to a maximum of nine credits. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of nine credits. Note(s): Same as FIS 497. 3 credit(s)

**ENG 481A - Comparative Literature**

Intensive analysis of selected masterpieces of the Western world to the beginning of Romanticism. 3 credit(s)

**ENG 481B - Modern Comparative Literature**

Intensive analysis of selected masterpieces of the Western world from Romanticism to the twentieth century. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 688. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 484A - The Bible as Literature**

Study of selected books of the Old and New Testaments as literature in their broader cultural contexts. Prerequisite(s): ENG 101 and ENG 102. Note(s): Content varies by semester. This course is cross-listed with ENG 685A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 485A - Asian Literature**

Study of modern and contemporary Asian literature, including comparison and contrast with Western literature and culture. Prerequisites ENG 101 and ENG 102. Note(s): Content varies by semester. This course is cross-listed with ENG 685A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 486A - Postcolonial Theory**

Examines the significance of the Other in the ex-colony. The course reflects on colonialism, independence, subordination, hybridity, resistance, and ideology. Authors studied may include Frantz Fanon, C.L.R. James, Edward Said, Homi Bhabha, Gayatri Spivak, Malcolm X, Stephen Greenblatt, among others. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 686A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 486B - Postcolonial Literature**

Probes literature from the ex-colony: Africa, the Caribbean, Ireland, India, America, Canada, Australia. Authors studied may include V.S. Naipaul, Derek Walcott, Wole Soyinka, Salman Rushdie, Jamaica Kincaid, Toni Morrison, Claude McKay, Maya Angelou, David Dabydeen, Chinua Achebe, among others. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 686B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 491B - Environmental Literature**

Study of environmental literature, both fiction and non-fiction. Note(s): This course is cross-listed with ENG 691B. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 494A - Native-American Literature**

Literature of Native-American peoples, oral traditions through contemporary works. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of six credits. Note(s): This course is cross-listed with ENG 694A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 495A - Early African-American Literature**

Study of early African-American literature, with emphasis upon the historical development of the African-American tradition in creative and critical writing. Prerequisite(s): ENG 101 and ENG 102. Note(s): Same as AAS 491. This course is cross-listed with ENG 695A. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 495B - Modern African-American Literature**

Study of recent and contemporary works of African American literature. Prerequisite(s): ENG 101 and ENG 102. Note(s): Same as AAS 492. This course is cross-listed with ENG 695B. Credit at the 600-level requires additional work. 3 credit(s)



**ENG 496A - Themes in Modern Chicano Literature**

Intensive study of major themes and techniques in the prose, poetry, and theater of Chicano writers since 1950. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**ENG 496B - Early Latino/a Literature**

Examines prose and poetry by Latino and Latina writers from the colonial era through the end of the nineteenth century in the United States. Prerequisite(s): ENG 101 and ENG 102. Note(s): This course is cross-listed with ENG 696B. Credit at the 600-level requires additional work 3 credit(s)

**ENG 496C - Contemporary Latino/a Literature**

Examines prose and poetry by Latino and Latina writers since 1900 in the United States. Prerequisite(s): ENG 101 and ENG 102. Note(s): Fulfills multicultural requirement. This course is cross-listed with ENG 696C. Credit at the 600-level requires additional work. 3 credit(s)

**ENG 499 - Independent Study**

Open to juniors and seniors with consent of the department chair and an assigned instructor. Prerequisite(s): ENG 101 and ENG 102. May be repeated to a maximum of six credits. 1-3 credit(s)

# English Language Center

***Purpose and Focus***

The English Language Center (ELC) provides instruction in English language and American culture to immigrant and international students whose native languages are other than English. The center serves this ethnically diverse population by providing greater access to higher education for students from some 70 different nations and ethnic groups. These students prepare for academic success by engaging in a six-level program that focuses on oral/written communication and academic skills. The ELC also serves the needs of working members of the community who need English language skills to enhance employment and social opportunities. Instruction in the center is accomplished in a climate of mutual respect and acceptance that is inviting to the adult learner.

***Areas of Concentration***

Although enrollment in the ELC does not lead to a degree, students can pursue credit-bearing course work in the following areas of English language development: composition, grammar, academic study skills, oral presentation, critical listening, reading, American idioms and vocabulary, pronunciation, and American culture.

***Department Policies***

**Continuous Enrollment:** International students who have been admitted to the English Language Center must maintain continuous enrollment with a balance of 12 credits during each spring and fall semester. Full-time international students who drop below 12 credits are subject to having their student visas revoked.

**One-Year Requirement:** International students are allowed one calendar year of attending classes in the English Language Center in order to complete their English language requirement (76 on the MTELP, 173 on the CBT or 61 on the IBT). Students failing to meet this criteria are subject to having their student visas revoked.

**Minimum GPA:** Students in the ELC must maintain a 2.30 GPA or be subject to probation.

**Testing:** The ELC's testing program offers the following examinations: Michigan Test of English Language Proficiency (MTELP), Placement Test, and SPEAK (Test of Spoken English).

**Language Resource Center:** A multimedia language resource center is located in FDH 240. It is available to all registered ELC students for improving their English language skills.

***Advisement***

Any student without a TOEFL score will be given a diagnostic placement examination for the purpose of determining appropriate course work. Students seeking admission to the university will take the MTELP while non-degree seeking students may take the Placement Test. Following testing, students are interviewed individually by the director of the ELC, and course work is suggested. Each semester prior to registration, student records are individually reviewed and additional course work is suggested as necessary.

## **English Language Center**

### **ESL 101 - Communicating in English I**

Integrated skills course providing communicative practice in speaking, listening, reading, and writing at the beginning level. Emphasis on basic grammatical structures enables students to expand oral and written competency. 1-3 credit(s)

### **ESL 102 - Communicating in English II**

Comprehensive course at the high beginning level which reinforces reading, writing, speaking, listening and grammar skills. Lessons organized thematically with activities that simulate real oral and written communication and build self confidence and fluency. 1-3 credit(s)

### **ESL 103 - Communicating in English III**

Intermediate multi-skilled approach to communicating in English. Emphasizes oral and written competence as preparation for advanced English study in an academic setting. Focuses on oral interaction, reading strategies, vocabulary development, and written rhetorical patterns. 1-3 credit(s)

### **ESL 104 - Communicating in English IV**

Integrated skills course providing communicative practice in speaking, listening, reading, writing, and grammar at a high-intermediate level. Exposure to new vocabulary via high interest academic topics. 1-3 credit(s)

### **ESL 105 - Communicating in English V**

Multi-skilled approach to communicating in English. Focus is on oral interaction, reading strategies, vocabulary development, and composition at a low-advanced level. 1-3 credit(s)

### **ESL 106 - Communicating in English VI**

Advanced level integrated skills course focusing on academic speaking, listening, reading, and writing. Emphasizes problem solving and error correction. 1-3 credit(s)

### **ESL 107 - Computer Assisted ESL I**

Instructor guided and computer assisted skills development for beginning to intermediate ESL learners in reading, vocabulary, pronunciation, listening, grammar and writing. Enrollment is limited to non-native speakers of English. 1-3 credit(s)

### **ESL 108 - Computer Assisted ESL II**

Instructor guided and computer assisted skills development for high intermediate to advanced ESL learners in reading, vocabulary, pronunciation, listening, grammar and writing. Enrollment is limited to non-native speakers of English. 1-3 credit(s)

### **ESL 141 - Pronunciation and Listening Comprehension — Beginning**

Through a series of extensive listening activities, students learn effective listening strategies, which, in turn lead to language acquisition. The sound system, stress and intonation, and rhythm of spoken English introduced. 1-3 credit(s)

### **ESL 142 - Basic English Grammar**

Introduces the rudimentary syntactic structures of English, promoting the development of speaking, listening, and writing skills as well as situationally appropriate usage. 1-3 credit(s)

### **ESL 143 - English for Hospitality - ESL**

Focuses on phrases, vocabulary and idioms used by hospitality professionals. Particular emphasis on realistic and integrated communication tasks that build fluency for English language learners. May be repeated to a maximum of six credits. 1-3 credit(s)

### **ESL 144 - Business English ESL**

Focuses on phrases, idioms, vocabulary and expressions used in American business. Emphasizes listening, speaking and writing in communicative and business contexts. May be repeated to a maximum of six credits. 1-3 credit(s)

### **ESL 146 - Beginning Speaking and Listening**

Emphasizes listening/speaking strategies and introduces academic rhetorical patterns. Orients students to reduced pronunciation and stress and intonation patterns in “everyday” English. 1-3 credit(s)

### **ESL 147 - Beginning Reading and Writing**

Integrated pre-academic reading and writing class emphasizing content comprehension, vocabulary development, effective reading strategies, outlining, note-taking, and expository writing. 1-3 credit(s)

### **ESL 150 - Intermediate Pronunciation**

Designed to help students improve pronunciation and discrimination of English sounds. Focuses on English vowel and consonant production as well as stress and intonation patterns in connected speech. 1-3 credit(s)

### **ESL 151 - Intermediate Grammar — Part I**

Targets grammar points from a communicative perspective. Emphasis on the basic English verb system, including modal auxiliaries, phrasal verbs, and irregular verbs. Introduces gerunds and infinitives and basic clauses. Focuses on oral communication. 1-3 credit(s)

### **ESL 152 - Intermediate Grammar — Part II**

Targets more advanced points of the verb system including passive voice, time frames and time shifting to fine-tune discourse. Introduces conditionals; adjective, noun, and adverbial clauses; reflexive and reciprocal pronouns; and embedded questions. Focuses on written communication. 1-3 credit(s)

### **ESL 153 - Intermediate Reading and Discussion**

Enhances development and fluency of vocabulary through reading and discussion at a low intermediate level. Short, high-interest reading selections prepare students to process the English language both orally and in writing. 1-3 credit(s)

### **ESL 154 - Intermediate Reading and Vocabulary**

Short fiction and non-fiction readings on American culture and education. Vocabulary and study of words, meanings, and synonyms. Words selected from intermediate-range frequency lists. Group and individual work. 1-3 credit(s)

### **ESL 155 - Intermediate Reading and Writing**

Reading and writing integrated via current topics of interest to ESL learners. Explores the connection between reading and writing in stimulating contexts. 1-3 credit(s)

### **ESL 156 - Grammar for Communication**

For the student who is fairly fluent but continues to make errors that interfere with communication. Focuses on accurate syntax in oral and written communication by teaching and applying self-editing, self-correcting strategies. 1-3 credit(s)

### **ESL 157 - Intermediate Composition**

Sentence variety and practice in expressing complex ideas in written form. Emphasis on different ways of writing complete sentences. 1-3 credit(s)

### **ESL 158 - Intermediate Conversation: Special Topics**

Develops conversational skills and strategies while exploring special topics such as American culture, environment, economy, business, and current events. 1-3 credit(s)

### **ESL 159 - Intermediate Speaking and Listening**

Students build fluency and accuracy of their listening and speaking skills through an integrated, thematic approach. Listening skills include listening for main idea, details, emotions, and context. Speaking skills include conversation, discussion, presentation, and interviewing. 1-3 credit(s)

### **ESL 160 - Vocabulary and Idioms of American English-Int/Adv**

Focuses on academic vocabulary (learning affixes and 300 common Latin and Greek bases) and on idiomatic English (400 American idioms are covered). 1-3 credit(s)

**ESL 161 - Advanced Grammar**

Emphasizes formal rules of grammar, which are embedded in communicative contexts to help students internalize English structures. Written and oral practice helps students bridge the gap between knowing and using grammatical structures correctly. Intended for ESL students who already have a solid foundation in the fundamentals of English grammar. 1-3 credit(s)

**ESL 162 - Advanced Applied Grammar**

Focus on the grammar of written English in academic contexts. Students learn time frames and self editing, rather than grammar in isolation. 1-3 credit(s)

**ESL 163 - Advanced Reading and Discussion**

Reading, discussion, and study skills. Understanding vocabulary in context, complex grammatical structures in reading passages, and the content of academic topics. Organizing and processing information in both oral and written English. 1-3 credit(s)

**ESL 164 - Advanced Reading and Vocabulary**

Approaches reading as a problem-solving process with emphasis on critical thinking skills, grammatical structure analysis, and vocabulary acquisition. Incorporates a variety of text patterns from editorials to literature. Word study focuses on the attainment of roots, stems, and affixes. 1-3 credit(s)

**ESL 165 - Advanced Reading and Writing**

Process approach to developing advanced writing skills. Readings from various disciplines and writing assignments improve fluency, essay test taking ability, and research paper writing. 1-3 credit(s)

**ESL 167 - Advanced Composition**

Paragraph development, unity, coherence, and logical presentations studied and practiced. Polishes the writing of students whose native language is not English. 1-3 credit(s)

**ESL 168 - Advanced Academic Writing**

Academic writing skills for specific purposes: exposition, argumentation, persuasion, and analysis. Critical thinking and writing encouraged through reading and responding to fiction and nonfiction. 1-3 credit(s)

**ESL 169 - Advanced Speaking and Listening**

Advanced auditory retention span, repetition, and memorization. Emphasis on pronunciation of English vowels and diphthongs which are especially difficult for ESL students. Group exercises and individual work. 1-3 credit(s)

**ESL 170 - Independent Study**

Individual instruction in one of the following areas: speaking and listening; grammar; reading and vocabulary; or composition. One-hour weekly meetings and individualized laboratory work on the weekly meetings and individualized laboratory work on the topic agreed to by the student and instructor. 1-3 credit(s)

**ESL 171 - Technical English for ESL**

Prepares non-native speakers to engage effectively in business and technical situations. Students practice oral and written communication of specialized English at the high-intermediate to advanced level. Quantitative English and technical vocabulary emphasized. 1-3 credit(s)

**ESL 174 - American Culture: Reading and Speaking**

Focus on American culture while emphasizing reading, conversation, and vocabulary. Students examine American values/behavior in terms of work, relationships and non-verbal communication. 1-3 credit(s)

**ESL 176 - Academic Study Skills for ESL Students**

Students prepare for academic success, building skills in time management, note-taking, study strategies, critical thinking, report-writing, and research techniques. 1-3 credit(s)

**ESL 178 - Vocabulary Development Intermediate/Advanced**

Focuses on the denotative and connotative meaning of vocabulary items from multiple sources and varied topics used in academic disciplines. Studies word formation: roots, stems, and affixes. Bridge course that prepares students for major course work in academic major. May be repeated to a maximum of six credits. 1-3 credit(s)

**ESL 180 - Editing Skills for ESL Writers**

Instruction in editing fundamentals for ESL writing with emphasis on English grammar, punctuation, spelling, sentence structure, and paragraph organization. 1-3 credit(s)

**ESL 185 - Advanced English Competency**

Integrated skills course in reading, vocabulary, grammar, listening and writing at the high-advanced level. An ESL capstone course for students preparing for major course work in an academic major. 1-3 credit(s)

**ESL 380 - Advanced Oral Presentation Skills**

Enhancement of oral presentation and pronunciation skills for international teaching assistants and foreign-born professionals. Focuses on accent reduction, rhythm and intonation, and public speaking. May be repeated to a maximum of six credits. 1-3 credit(s)

# World Languages and Cultures

## ***Purpose and Focus***

The Department of World Languages and Cultures offers programs of study leading to degrees in several languages. The department promotes the study of languages and cultures in order to prepare students to live and work in an increasingly interdependent world. While fostering an atmosphere of critical thinking and intellectual growth, the department helps students enhance their language skills and augment their appreciation of varied literatures and cultures. Department offerings complement study in many other disciplines.

## ***Accreditation***

Northwest Commission on Colleges and Universities

## ***General Education International Core Requirement***

The vast majority of WLC courses fulfill the General Education International Core Requirement. Consult the current listing of approved courses for verification.

## ***Undergraduate Majors***

French Studies  
German Studies  
Romance Languages  
Spanish

## ***Special Programs***

World Languages and Cultures students may elect to study abroad for a summer, a semester, or a year in a country such as Spain, France, Germany, Italy, Japan, Chile, Mexico, or Costa Rica. Administered by International Programs, such study provides students with first-hand experience of the language and culture of the host country while earning UNLV credits. Credits taken abroad will be recorded as CHI; WLC; FREN; GER; ITAL; or SPAN 187, 287, 387, or 487. Whether they correspond to courses offered by the department or count toward a major or minor will be determined by a standing committee of the Department of World Languages and Cultures. Consult Interdisciplinary Programs for information on Asian and Latin American studies.

**Admission Policies:** Students who have had foreign language courses in high school may be required to take a placement test in that language if they wish to resume its study on an advanced level. This regulation applies equally to students having had extended contact with a foreign language by residence abroad.

**Academic Policies:** After initial placement, first- and second-year courses must be taken in sequential order. Students may not enroll concurrently in any of these courses and one of a higher level except for those courses taught in English.

Native speakers of languages other than English may not enroll in lower-division classes in their native language. These students are encouraged to consult with the department chair for special advising on remedial study or advanced work.

Students majoring in Spanish, French Studies and German Studies must take at least 30 of the 36 upper-division credits required for the major at UNLV. Students following the Spanish-for-the-Professions

concentration must include their profession specific courses in those 30 credits. SPAN 302 is a prerequisite for all upper-division Spanish-for-the-Professions and General Track courses in Spanish.

Students may take credit by examination in a given course one time only. Credit by examination may be taken only in 113, 114, 213, 214, 226, 227, 301, or 302, pending departmental approval of level.

## ***Advisement***

For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors are assigned a faculty advisor who should be consulted for career advising and for more specialized academic advising.

## ***French Major - Bachelor of Arts (BA)***

Please see the UNLV College of Liberal Arts, French department web page at [http://liberalarts.unlv.edu/Foreign\\_Languages/major\\_french.html](http://liberalarts.unlv.edu/Foreign_Languages/major_french.html) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Liberal Arts Wilson Advising Center at <http://liberalarts.unlv.edu/WAC/>.

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## ***Learning Objectives***

Upon completion of the B.A. program in French Studies, students should be able to:

1. Write grammatically and lexically accurate sentences at the high intermediate level or above in French.
2. Pronounce French accurately so that it is not a strain for native speakers to understand them, and express themselves on general topics and narrate events.
3. Write analytically on literary and cultural topics in French.
4. Read intermediate to advanced texts in French and understand relevant linguistic structures.
5. Have general knowledge of the French and Francophone cultures and civilizations.

## ***University Graduation Requirements***

- Please see Graduation Policies for complete information
- |                                      |                         |
|--------------------------------------|-------------------------|
| French Degree Requirements .....     | Total: 120 Credits      |
| General Education Requirements ..... | Subtotal: 35-40 Credits |
| First-Year Seminar .....             | Credits: 3              |
| English Composition .....            | Credits: 6              |
| ENG 101 - Composition I              |                         |
| and                                  |                         |
| ENG 102 - Composition II             |                         |
| Second-Year Seminar .....            | Credits: 3              |
| Constitutions .....                  | Credits: 3-6            |
| Mathematics .....                    | Credits: 3              |
| Distribution Requirement .....       | Credits 18-19           |
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts:
    - Automatically satisfied by Major requirements
  - Social Science: 9 Credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking: 9-10
    - PHIL 102 - Critical Thinking and Reasoning



- And two courses from Life and Physical Sciences category; at least one must have a lab

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BA in French ..... Subtotal: 48 Credits

Humanities ..... Credits: 6

Fine Arts ..... Credits: 6

French Studies Requirements..... Credits: 36

Composition and Conversation..... Credits: 12

includes: Take four of the following courses. See department for appropriate placement.

- FREN 213 - Intermediate French I
- FREN 214 - Intermediate French II
- FREN 300 - French Grammar Review
- FREN 301 - Third-Year French: Composition and Conversation I
- FREN 302 - Third-Year French: Composition and Conversation II
- FREN 401 - Advanced French Composition and Conversation I
- FREN 402 - Advanced French Composition and Conversation II

Literature ..... Credits: 3-9

Culture ..... Credits: 6-9

Linguistics ..... Credits: 3

Complete one of the following:

- FREN 312 - French Phonetics
- WLC 311 - Current Linguistic Theory
- WLC 414 - Romance Linguistics
- WLC 499 - Application of Linguistics to the Teaching of Languages
- FREN 312 - French Phonetics
- WLC 311 - Current Linguistic Theory
- WLC 414 - Romance Linguistics
- WLC 499 - Application of Linguistics to the Teaching of Languages

Upper-Division French Electives ..... Credits: 6-9

Electives..... Credits: 32-37

Total Credits: ..... 120

## German Major - Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, World Languages and Cultures web page at [liberalarts.unlv.edu/Foreign\\_Languages](http://liberalarts.unlv.edu/Foreign_Languages) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org).

## Learning Outcomes

1. Students beginning Third-Year German Conversation and Composition are expected to have reached an intermediate level of reading, writing, listening and speaking proficiency.
2. Students should be able to read somewhat longer prose of several paragraphs in length, comprehending the main ideas and facts.

3. Students should be able to write in German on everyday-topics with a reasonable degree of analytical, lexical and grammatical proficiency.
4. Students should be able to listen and understand main ideas and facts of a connected discourse on a variety of topics.
5. Students should be able to pronounce German in a comprehensible manner and converse on general topics, narrate events and describe what they see.
6. Demonstrate a general understanding of the major German literary movements, including key concepts, events and figures involved.
7. Demonstrate a general understanding of the major German historical movements, including key concepts, events and figures involved.
8. Understand the nature and development of the culture and civilization of Germany and the German-speaking countries.

## University Graduation Requirements

- Please see Graduation Policies for complete information

German Degree Requirements ..... Total: 120 Credits

General Education Requirements..... Subtotal: 35-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics..... Credits: 3

Distribution Requirements ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirements
- Social Science - 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in German..... Subtotal: 48 Credits

Additional Degree Requirements

Humanities ..... Credits: 6

Fine Arts ..... Credits: 6

German Studies Requirements ..... Credits: 36

Composition and Conversation..... Credits: 12

Take four of the following courses. See department for appropriate placement.

- GER 213 - Intermediate German I
- GER 214 - Intermediate German II
- GER 301 - Third-Year German: Composition and Conversation I
- GER 302 - Third-Year German: Composition and Conversation II
- GER 401\* - Advanced German Composition and Conversation I
- GER 402\* - Advanced German Composition and Conversation II

Literature ..... Credits: 6-9

Culture ..... Credits: 3-6

Upper-Division German Electives.....Credits: 9-12  
 Relevant Upper-Division Electives from other  
 departments ..... Credits: 3-6  
 Electives.....Credits: 32-37  
 Total Credits: ..... 120

## Romance Languages Major - Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, World Languages and Cultures web page at [liberalarts.unlv.edu/Foreign\\_Languages](http://liberalarts.unlv.edu/Foreign_Languages) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. Students will be able to narrate in the past using the preterit and the imperfect with greater precision.
2. They also will be able to make descriptions using with more accurately the verbs *ser* and *estar*.
3. Additionally, the students will be prepared to use properly subjunctive and indicative moods.
4. Finally, they will improve their ability to argue using the appropriate logical connectors.

### University Graduation Requirements

- Please see Graduation Policies for complete information.
- Romance Language Degree Requirements.....Total: 120 Credits  
 General Education Requirements ..... Subtotal: 35-40 Credits  
 First-Year Seminar ..... Credits: 3  
 English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
 Constitutions ..... Credits: 3-6  
 Mathematics ..... Credits: 3  
 Distribution Requirement ..... Credits: 18-19  
 Please see Distribution Requirement for more information.
- Humanities and Social Science
    - Automatically satisfied by Major requirement
  - Social Science: 9 Credits
  - Life and Physical Sciences and Analytical Thinking: 9-10 Credits
    - and two courses from life & physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

Electives.....Credits: 14-19  
 Total Credits: ..... 120  
 Major Requirement - BA in Romance Language - Subtotal: 66 Credits  
 Humanities ..... Credits: 6  
 Fine Arts ..... Credits: 6

Primary Language Concentration (French, Italian, Spanish)  
 Requirement ..... Credits 36  
 Literature ..... Credits: 6  
 Language, Composition and Conversation ..... Credits: 12  
 Select four courses from your primary language. See Department for appropriate placement

- FREN 213 - Intermediate French I
- ITAL 213 - Intermediate Italian I
- SPAN 213 - Intermediate Spanish I
- SPAN 214 - Intermediate Spanish II
- ITAL 214 - Intermediate Italian II
- SPAN 226 - Spanish for Heritage Speakers I
- SPAN 227 - Spanish for Heritage Speakers II
- FREN 300 - French Grammar Review
- ITAL 300 - Italian: Advanced Conversation
- FREN 301 - Third-Year French: Composition and Conversation I
- ITAL 301 - Third-Year Italian: Composition and Conversation
- SPAN 301 - Third-Year Spanish: Conversation and Composition
- FREN 302 - Third-Year French: Composition and Conversation II
- ITAL 302 - Third-Year Italian: Composition and Conversation
- SPAN 302 - Third-Year Spanish: Grammar and Composition
- ITAL 303 - Third-Year Readings in Italian: Subtitle Varies
- FREN 401 - Advanced French Composition and Conversation I
- ITAL 401 - Advanced Italian Grammar and Composition I
- SPAN 401 - Reading Proficiency in Spanish
- ITAL 402 - Advanced Italian Grammar and Composition II
- FREN 402 - Advanced French Composition and Conversation II
- ITAL 403 - Advanced Reading Proficiency in Italian

Linguistics ..... Credits: 3  
 Culture ..... Credits: 3  
 Other Upper-division Courses in Primary Language ..... Credits: 12  
 Secondary Language Concentration (French, Italian, Spanish)  
 Requirement ..... Credits: 18  
 Language, Composition and Conversation ..... Credits: 12  
 Select four courses from you secondary language. See department for appropriate placement

(See Primary Language Concentration (French, Italian, Spanish) Requirement for the list of classes)

Additional upper-division courses in  
 secondary language ..... Credits: 6

## Spanish Major - Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, World Languages and Cultures web page at [liberalarts.unlv.edu/Foreign\\_Languages](http://liberalarts.unlv.edu/Foreign_Languages) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. Demonstrate the ability to master advanced grammar items and lexicon in Spanish.
2. Need to prove a correct command of Spanish writing skills, with attention to stylistic detail in three modes: argumentative, narrative and descriptive
3. Read and write analytically on cultural topics in Spanish.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Spanish Degree Requirements ..... Total: 120 Credits

General Education Requirements ..... Subtotal: 35-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:

- Automatically satisfied by Major requirements

- Social Science - 9 credits

- One course each from three different fields

- Life and Physical Sciences and Analytical Thinking: 9-10 credits

- Two courses from life and physical sciences category; at least one must have a lab.

- Analytical Thinking - 3 credits

- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

(see note 1 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BA in Spanish ..... Subtotal: 48 Credits

Additional Degree Requirements

Humanities ..... Credits: 6

Fine Arts ..... Credits: 6

General Spanish Major Requirements ..... Credits: 36

(see note 2 below)

Literature ..... Credits: 12-15

Composition and Conversation ..... Credits: 12

Take four of the following courses. See department for appropriate placement.

- SPAN 213 - Intermediate Spanish I

- SPAN 214 - Intermediate Spanish II

- SPAN 226 - Spanish for Heritage Speakers I

- SPAN 227 - Spanish for Heritage Speakers II

- SPAN 301 - Third-Year Spanish: Conversation and Composition

- SPAN 302 - Third-Year Spanish: Grammar and Composition (see note 3 below)

- SPAN 401 - Reading Proficiency in Spanish

- SPAN 402 - Advanced Reading and Writing Techniques in Spanish

Linguistics ..... Credits: 3-6

Culture ..... Credits: 3-6

Spanish for the Professions ..... Credits: 3-6

(see note 2 below)

Electives ..... Credits: 26-27

Spanish-for-the-Professions Major Requirements ..... Credits: 36

(see note 2 below)

Spanish for the Professions ..... Credits: 12

Take four of the following courses.

- SPAN 315 - Introduction to Translation

- SPAN 317 - Interpretation I

- SPAN 365 - Business Spanish I

- SPAN 366 - Business Spanish II

- SPAN 367 - Spanish for the Social Services

- SPAN 368 - Spanish for the Tourism Industry

- SPAN 369 - Spanish for the Legal Profession

- SPAN 370 - Spanish for the Medical Profession

Spanish Language ..... Credits: 12

Take four of the following courses. See department for appropriate placement.

- SPAN 213 - Intermediate Spanish I

- SPAN 214 - Intermediate Spanish II

- SPAN 226 - Spanish for Heritage Speakers I

- SPAN 227 - Spanish for Heritage Speakers II

- SPAN 301 - Third-Year Spanish: Conversation and Composition

- SPAN 302 - Third-Year Spanish: Grammar and Composition (see note 3 below)

- SPAN 401 - Reading Proficiency in Spanish

- SPAN 402 - Advanced Reading and Writing Techniques in Spanish

Culture ..... Credits: 3-6

Literature ..... Credits: 3-6

Linguistics ..... Credits: 3-6

Electives ..... Credits: 32-37

Total Credits: ..... 120

## Notes:

1. For both the Spanish major and Spanish for the Professions major, 30 of the 36 required major credits must be upper division (300-level or 400-level) and 21 of the 36 required major credits must be taken at UNLV.
2. Every Spanish major student must complete at least one 3-credit course in each of the following areas: Linguistics, Culture, and Spanish for the Professions, and must complete 6 credits in one of those areas.
3. SPAN 302 is a prerequisite for all upper-division Spanish-for-the-Professions and General Track courses in Spanish.

## Minor

### Chinese Minor

Courses Include ..... Total Credits: 18

CHI 213 - Intermediate Chinese I

CHI 214 - Intermediate Chinese II

CHI 301 - Third-Year Chinese: Conversation and Composition

CHI 302 - Third-Year Chinese: Grammar and Composition

and six additional credits of upper-division (300-400 level) course work in CHI.

### Classical Studies Minor

Courses Include ..... Total Credits: 21  
12 credits of 100-level courses and nine credits of upper-division courses. Students earning minors can choose 12 language course credits from the following:

GRE 113 - Classical Greek I

GRE 114 - Classical Greek II

LAT 113 - Elementary Latin I

LAT 114 - Elementary Latin II

LAT 213 - Intermediate Latin I

LAT 214 - Intermediate Latin II

and nine credits of upper-level courses from the following:

ART 461 - The History of Ancient Art  
CLA 309 - Independent Readings in the Classical Languages  
ENG 463A - Classical Drama in Translation  
GRE 331 - Greek Literature in Translation  
HIST 456 - Topics in Ancient History  
HIST 457 - Ancient Greek Civilization  
HIST 458 - Roman Civilization  
LAT 331 - Latin Literature in Translation  
PHIL 401 - Ancient Philosophy  
PHIL 410 - Plato  
PHIL 411 - Aristotle  
PSC 371 - Ancient Political Theory

### **French Studies Minor**

Courses Include ..... Total Credits: 18

FREN 213 - Intermediate French I  
FREN 214 - Intermediate French II

and 12 additional FREN credits at the upper-division (300–400) level, six of which must be in composition and conversation. Students earning minors must take at least one literature course.

### **German Studies Minor**

Courses Include ..... Total Credits: 18  
six credits from:

GER 213 - Intermediate German I  
GER 214 - Intermediate German II  
GER 225 - German Grammar Review

and 12 additional credits of upper-division (300–400 level) course work in the German language, six of which must be:

GER 301 - Third-Year German: Composition and Conversation I  
GER 302 - Third-Year German: Composition and Conversation II

### **Italian Studies Minor**

Courses Include ..... Total Credits: 18  
18 credits of course work at the 200–level or above. Students earning minors can choose course credits from the following:

ITAL 213 - Intermediate Italian I  
ITAL 214 - Intermediate Italian II  
ITAL 300 - Italian: Advanced Conversation  
ITAL 301 - Third-Year Italian: Composition and Conversation  
ITAL 302 - Third-Year Italian: Composition and Conversation  
ITAL 303 - Third-Year Readings in Italian: Subtitle Varies  
ITAL 315 - Italian Translation I  
ITAL 321 - Italian Culture and Civilization  
ITAL 322 - Italian Popular Culture  
ITAL 387 - Study Abroad in Foreign Language, Literature, or Culture III  
ITAL 401 - Advanced Italian Grammar and Composition I  
ITAL 402 - Advanced Italian Grammar and Composition II  
ITAL 403 - Advanced Reading Proficiency in Italian  
ITAL 409 - Independent Study  
ITAL 440 - Topics in Italian Literature  
ITAL 449 - Italian Culture Through Films  
ITAL 462 - Dante's Divine Comedy  
ITAL 463 - Boccaccio's Decameron  
ITAL 490 - Topics in Italian Studies  
HIST 458 - Roman Civilization  
ART 463 - History of Early Renaissance Art

### **Japanese Studies Minor**

Courses Include ..... Total Credits: 18

JPN 213 - Intermediate Japanese I  
JPN 214 - Intermediate Japanese II  
JPN 301 - Third-Year Japanese I  
JPN 302 - Third-Year Japanese II

and six additional credits of upper-division (300–400 level) course work in JPN.

### **Spanish for the Professions Minor**

Courses Include ..... Total Credits: 18

Only three credits from the second-year level may apply toward the minor.

Includes:

SPAN 214 - Intermediate Spanish II

or

SPAN 227 - Spanish for Heritage Speakers II

and 15 additional upper-division SPAN courses. These must include nine credits of Spanish-for-the-Profession courses and six credits of Spanish language

(SPAN 301, SPAN 302, SPAN 401, or SPAN 402). Nine credits must be taken at UNLV.

Heritage speakers of Spanish may not take:

SPAN 113, SPAN 114, SPAN 213, SPAN 214, or SPAN 301.

They may take:

SPAN 226 - Spanish for Heritage Speakers I

and

SPAN 227 - Spanish for Heritage Speakers II.

Up to six credits of Spanish-for-the-Professions classes may be applied to the general Spanish major.

### **Spanish Minor**

Courses Include ..... Total Credits: 18

Only three credits from second-year level may apply toward the minor. Includes 15 credits of course work above 300 level, nine of which must be in composition or grammar. Nine credits must be taken at UNLV.

Heritage speakers of Spanish may not take SPAN 113, SPAN 114, SPAN 213, SPAN 214, or SPAN 301.

They may take:

SPAN 226 - Spanish for Heritage Speakers I

and

SPAN 227 - Spanish for Heritage Speakers II

Up to six credits of Spanish-for-the-Professions classes may be applied to the general Spanish major.

### **Notes:**

1. German Studies majors may replace three credits of the literature requirements with three credits of linguistics or three credits of advanced composition-conversation. GER 321 and GER 322 may not count toward the German Studies major or minor.
2. Topics courses in both Peninsular and Spanish American culture are recommended for Spanish majors.
3. Courses numbered 100 through 487 may not be taken for graduate credit. Courses numbered 620-699 may be taken for graduate credit within the limitations of the corresponding graduate program. For additional details, see the Graduate Catalog. Courses numbered 700 through 799 are open to graduate students only, except by petition.



4. Every student must complete a three-credit multicultural course and a three-credit international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.

## ***Foreign Languages***

### **CHI 105 - Chinese Business Culture**

Introduction to the cultural and linguistic knowledge needed to conduct business in China. Topics covered include business etiquette, business environment in China, current economic and political situation in China. Basic communication skills also covered. Note(s): Taught in English. 3 credit(s)

### **CHI 113 - Elementary Chinese I**

Development of language skills in listening, speaking, reading, and writing. 3 credit(s)

### **CHI 114 - Elementary Chinese II**

Development of language skills in listening, speaking, reading, and writing. Prerequisite(s): CHI 113 or equivalent. 3 credit(s)

### **CHI 187 - Study Abroad in Foreign Language, Literature, or Culture I**

Elementary course work in Chinese language, literature, or culture. Offered through the Office of International Programs. May be repeated for a maximum of thirty credits. 1-4 credit(s)

### **CHI 213 - Intermediate Chinese I**

Structural review, conversation, reading, and writing. Prerequisite(s): CHI 114 or equivalent. 3 credit(s)

### **CHI 214 - Intermediate Chinese II**

Structural review, conversation, reading, and writing. Prerequisite(s): CHI 213 or equivalent. 3 credit(s)

### **CHI 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Intermediate course work in Chinese language, literature, or culture. Offered through the Office of International Programs. May be repeated for a maximum of thirty credits. 1-4 credit(s)

### **CHI 301 - Third-Year Chinese: Conversation and Composition**

Intensive practice in oral Chinese. Topics for conversations are drawn from newspaper articles and other media sources on social-cultural issues in China. Develops ability to comprehend Chinese used in various contexts, to write short essays, and to discuss subject-oriented issues. Prerequisite(s): CHI 214 or equivalent. May be repeated to a maximum of six credits. 3 credit(s)

### **CHI 302 - Third-Year Chinese: Grammar and Composition**

Review of grammar and development of writing skills in Chinese. Develops ability to write narrative, descriptive, and expository writings in Chinese. Prerequisite(s): CHI 214 or equivalent. 3 credit(s)

### **CHI 322 - Modern Chinese Literature in Translation**

Study of the poems, short stories, and essays by modern Chinese writers. Literary texts woven together with critical texts and occasional films. Explores how works of literature illuminate some of the most significant aspects of modern Chinese society. May be repeated to a maximum of six credits. 3 credit(s)

### **CHI 323 - Chinese Popular Culture**

Introduction to contemporary Chinese culture and society. Focuses on popular literature, contemporary Chinese cinema, soap operas, political pop in the arts, pop music, and Internet literature in China. Taught in English. Prerequisite(s): Nine credits of English composition and literature. 3 credit(s)

### **CHI 331 - Chinese Literature in Translation**

Major works of Chinese fiction, drama, and poetry from the classical period to the present. 3 credit(s)

### **CHI 350 - Topics in Chinese Literature**

Study of the poems, short stories, and essays written by Chinese authors. Through the reading of critical texts, explores how works of literature illuminate some of the most significant aspects of Chinese society. Prerequisite(s): CHI 114. May be repeated to a maximum of six credits. 3 credit(s)

### **CHI 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Advanced course work in Chinese language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): CHI 214. May be repeated for a maximum of thirty credits. 1-4 credit(s)

### **CHI 443 - Modern Chinese Culture Through Film**

Study of modern Chinese culture from both historical and critical perspectives through selected Chinese films. The primary focus is on the Mainland China but students will also be introduced to Hong Kong, Taiwan, diaspora and transnational Chinese cultures. Prerequisite(s): ENG 101, ENG 102 and ENG 231 or ENG 232. Note(s): Taught in English. 3 credit(s)

### **CHI 487 - Study Abroad in Foreign Language, Literature, or Culture IV**

Senior-level course work in Chinese language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): CHI 287. May be repeated for a maximum of thirty credits. 1-4 credit(s)

### **CLA 100 - First Year Seminar**

This course will introduce students to university life and the University Undergraduate Learning Outcomes by exploring a specific topic area and discussing the skills and knowledge necessary to succeed as an undergraduate. The topic area will vary by section. See section Note(s): for description of the content of each section. 3 credit(s)

### **CLA 309 - Independent Readings in the Classical Languages**

Independent study taken under the supervision of a faculty member. Course Prerequisite(s): 12 credits of course work in Classical Studies and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

### **CLA 450 - Classical Drama in Translation**

(Same as ENG 463A.) Study of major Greek and Latin playwrights. 3 credit(s)

### **FREN 113 - Elementary French I**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. Note(s): See department for placement. 3 credit(s)

### **FREN 114 - Elementary French II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. Prerequisite(s): FREN 113 or equivalent. Note(s): See department for placement. 3 credit(s)

### **FREN 187 - Study Abroad in Foreign Language, Literature or Culture I**

Elementary course work in French language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

### **FREN 213 - Intermediate French I**

Structural review, conversation, reading, and writing. Prerequisite(s): FREN 114 or equivalent. 3 credit(s)

### **FREN 214 - Intermediate French II**

Structural review, conversation, reading, and writing. Prerequisite(s): FREN 213 or equivalent. 3 credit(s)

### **FREN 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Intermediate course work in French language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**FREN 300 - French Grammar Review**

Review and consolidation of students' knowledge of French grammar structures. Practices advanced and unfamiliar grammatical constructions. Prerequisite(s): FREN 214 or equivalent. Note(s): Taught in French. 3 credit(s)

**FREN 301 - Third-Year French: Composition and Conversation I**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 302 - Third-Year French: Composition and Conversation II**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 312 - French Phonetics**

Intensive practice of French sounds and intonation. Training in phonetic transcription. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 313 - French Phonetics II**

Corequisite(s): Continued intensive practice of French sounds and intonation with an emphasis on more varied and regional vocabulary. Knowledge of phonetic transcription assumed. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation. Prerequisite(s): FREN 312. 3 credit(s)

**FREN 324 - Survey of French Culture**

Conducted in French. Introduces the principal cultural, intellectual and artistic events of France and the francophone world that continue to resonate in French culture. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 341 - History of French Literature I**

Comprehensive view of French literature from its beginning to the present day. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 342 - History of French Literature II**

Comprehensive view of French literature from its beginning to the present day. Prerequisite(s): FREN 214. 3 credit(s)

**FREN 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Advanced course work in French language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): FREN 214. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**FREN 401 - Advanced French Composition and Conversation I**

Composition course designed to improve writing skills for students at the senior level. Taught entirely in the target language and emphasizes stylistics. Prerequisite(s): FREN 301, FREN 302. 3 credit(s)

**FREN 402 - Advanced French Composition and Conversation II**

Advanced stylistics class with emphasis on writing, vocabulary building, rhetorical figures and analysis of texts. Prerequisite(s): FREN 301, FREN 302. 3 credit(s)

**FREN 409 - Independent Study**

Independent study taken under the supervision of a faculty member. Prerequisite(s): FREN 302. May be repeated to a maximum of six credits. 1-3 credit(s)

**FREN 416 - Business French**

Offers foundation in business vocabulary, the study of basic and cultural concepts, and practice in situations common to today's French-speaking business world. Prerequisite(s): FREN 300 or FREN 301 or FREN 302. 3 credit(s)

**FREN 425 - Topics in French Culture**

Analysis of different aspects of French or Francophone culture through art, mass media and popular traditions. Prerequisite(s): FREN 300 or FREN 301 or FREN 302. May be repeated with a different topic for up to six credits. Note(s): Taught in French. 3 credit(s)

**FREN 441 - Topics in French Literature**

Concentrated study of selected themes, authors, periods or literary forms in French or Francophone literature. Prerequisite(s): FREN 341 or FREN 342. May be repeated for a maximum of six credits with a different topic. 3 credit(s)

**FREN 443 - From French Literature to Film**

From a condensed analysis of narrative techniques and structure of original literary sources toward a detailed study of the basic problems connected with the grammar of film. Students expected to read the original literary work in translation and/or script if available. Prerequisite(s): FREN 300 or FREN 301 or FREN 302. Note(s): Same as FIS 443. 3 credit(s)

**FREN 449 - The History of French Film**

Survey and evolution of French film from silent to sound: surrealism, realism, and the New Wave. Includes the work of major filmmakers such as Clair, Renoir, Cocteau, Clouzot, Godard, Truffaut, etc. Films analyzed as works of art, social documents, and instruments of communication. Prerequisite(s): FREN 300 or FREN 301 or FREN 302. 3 credit(s)

**FREN 487 - Study Abroad in Foreign Language, Literature, or Culture IV**

Senior-level course work in French language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): FREN 301. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**GER 113 - Elementary German I**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. See department for placement. 3 credit(s)

**GER 114 - Elementary German II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis on speaking. See department for placement. Prerequisite(s): GER 113. 3 credit(s)

**GER 116 - Elementary German Conversation**

Development of conversation skills based on reading selections, with review of grammar as needed. Not open to students having credit for GER 213, GER 225, or more advanced courses. Prerequisite(s): GER 114. 3 credit(s)

**GER 187 - Study Abroad in Foreign Language, Literature, or Culture I**

Elementary course work in German language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**GER 213 - Intermediate German I**

Structural review; conversation, reading, and writing. Prerequisite(s): GER 114 or equivalent. 3 credit(s)

**GER 214 - Intermediate German II**

Structural review; conversation, reading, and writing. Prerequisite(s): GER 213 or equivalent. 3 credit(s)

**GER 225 - German Grammar Review**

Intensive grammar review for those who have completed intermediate German. Reinforces basic grammar concepts as well as practices advanced and unfamiliar constructions. Reading comprehension exercises with appropriate target-language texts also included. Prerequisite(s): GER 214. 3 credit(s)

**GER 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Intermediate course work in German language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**GER 299 - Introductory German Texts in the Humanities**

Supplements English-language content of selected 100-200 level courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections. May be repeated to a maximum of four credits. 2 credit(s)

**GER 301 - Third-Year German: Composition and Conversation I**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): GER 214 or equivalent achievement on the placement test. 3 credit(s)

**GER 302 - Third-Year German: Composition and Conversation II**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): GER 214 or equivalent achievement on the placement test. 3 credit(s)

**GER 311 - Introduction to German Linguistics**

Structure of the German language: phonetics, phonemics, morphemics, and basic notions of the syntactic structure. Offered in English. Prerequisite(s): GER 214 or equivalent. 3 credit(s)

**GER 312 - German Phonetics**

Intensive practice of German sounds and intonation. Training in phonetic transcription. Exercises based on words, sentences, and texts designed to help the students achieve a native-like pronunciation. Offered in English. 3 credit(s)

**GER 321 - German Culture and Civilization**

General study of Germany as a nation from earliest times to the present; its cultural, social, economic, and political evolution; its present problems and its role in the world today. Taught in English. Prerequisite(s): Nine credits of English composition and literature. 3 credit(s)

**GER 322 - Contemporary Germany and Austria**

Survey of cultural developments in German-speaking Europe since the fall of the Berlin Wall. Responses of prominent writers, musicians, filmmakers, politicians, etc., to issues such as continued East/West German tension, Nazism's legacy, the role of the EU, violence toward foreigners, the transatlantic partnership, globalization, and more. In English. Prerequisite(s): GER 321. 3 credit(s)

**GER 331 - German Literature in Translation — Drama**

German plays in English translations with the main emphasis on the modern period, including works by Hauptmann, Brecht, Frisch, Durrenmatt, and Weiss. Specifically designed for non-majors and may not be counted toward a German major or minor. 3 credit(s)

**GER 332 - German Literature in Translation — Prose**

German short stories and novels in English translations with the main emphasis on the modern period, including works by Mann, Hesse, Kafka, and Grass. Specifically designed for non-majors and may not be counted toward a German major or minor. 3 credit(s)

**GER 341 - German Literature to 1624**

Preliminary survey of German literature from the Hildebrandslied to Opitz. Prerequisite(s): GER 214 or equivalent. 3 credit(s)

**GER 342 - German Literature from 1624 to the Present**

Preliminary survey of German literature from the early seventeenth century to the present. Presents representative literary texts against their respective socio-historical background. Prerequisite(s): GER 214 or equivalent. 3 credit(s)

**GER 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Advanced course work in German language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): GER 214. May be repeated for a maximum of thirty credits. 1-4 credit(s)

**GER 399 - Advanced German Texts in the Humanities**

Supplements English-language content of selected 300-level courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections. May be repeated to a maximum of 4 credits. 2 credit(s)

**GER 401\* - Advanced German Composition and Conversation I**

Composition course designed to improve writing skills for students at the senior level. Taught entirely in the target language and emphasizes stylistics. Prerequisite(s): GER 302. 3 credit(s)

**GER 402\* - Advanced German Composition and Conversation II**

Advanced stylistics class with emphasis on writing, vocabulary building, rhetorical figures and analysis of texts. Prerequisite(s): GER 302. 3 credit(s)

**GER 405 - German Translation and Interpretation**

Introduction to the theory and practice of written translation and oral interpretation from German into English. Includes practice with literary texts from diverse genres as well as business, legal and political texts. Strategies of oral interpretation and computer-based translation also introduced, critiqued and practiced. Prerequisite(s): GER 302. Note(s): Taught in German. 3 credit(s)

**GER 406 - German Translation Project**

Formerly Listed as GER 408.

Professor-supervised creation of an English translation, suitable for publication, of an authentic German-language text. Prerequisite(s): GER 405. 3 credit(s)

**GER 409 - Independent Study**

Independent study under the direction of a faculty member. May be repeated to a maximum of six credits. 1-3 credit(s)

**GER 416 - Business German**

Introduction to the vocabulary and cultural knowledge required to conduct business in German-speaking Europe. Students become familiar with personal finance, industrial relations, the stock market, taxation, banking and hospitality industries in Germany and also gain skills to successfully apply for jobs requiring German. Prerequisite(s): GER 214. 3 credit(s)

**GER 420 - German Drama Production**

Examination of German-language theater traditions from G.E. Lessing to Thomas Bernhard. In-class performances of representative German-language scenes from playwrights spanning many literary epochs as well as production of a full-length play for the UNLV community. Prerequisite(s): GER 302. Note(s): Taught in German. 3 credit(s)

**GER 425 - Topics in German Culture**

Topics of contemporary German culture from thematic as well as structural perspectives. Emphasizes current state of German literature, music, visual arts, and other media in relation to contemporary German politics, economics, and society. Prerequisite(s): GER 214. May be repeated to a maximum of six credits. 3 credit(s)

**GER 441 - Drama and Film of German Expressionism**

Formerly Listed as GER 442.

(Same as FIS 441 and FOL 441.) Examination of German film and literature of the 1910s and 1920s. Prerequisite(s): GER 214. 3 credit(s)

**GER 443 - Modern German Culture Through Film**

Representative films reacting to key moments in modern German and Austrian cultural developments (Trümmerfilme, Heimatfilme, New German Cinema, road movies, DEFA, the post-Wende film, etc.) are screened. Primary attention paid to political contexts and societal developments informing their reception. Prerequisite(s): GER 302. Note(s): Taught in German. 3 credit(s)

**GER 455 - German Literature of the Baroque**

Formerly Listed as GER 456.

Study of selected works of Gryphius, Lohenstein, Grimmelshausen. Prerequisite(s): GER 214. 3 credit(s)

**GER 457 - German Literature of the Enlightenment**

Enlightenment as a turning point in European culture; examines selected works of Gottsched, Lessing, and Wieland as well as new literary forms such as the familiar essay and the bourgeois tragedy. Prerequisite(s): GER 214. 3 credit(s)

**GER 461 - Storm and Stress and Classicism**

Study of selected works of Goethe and Schiller. Prerequisite(s): GER 214. 3 credit(s)

**GER 471 - Romanticism**

Study of selected works of writers such as Tieck, Novalis, Arnim, Brentano, Eichendorff, and Hoffmann. 3 credit(s)

**GER 472 - Nineteenth-Century Drama and Poetry**

Study of selected works of writers such as Kleist, Grillparzer, Hebbel, and Grabbe. Prerequisite(s): GER 214. 3 credit(s)

**GER 473 - Nineteenth-Century Prose**

Study of selected works of writers such as Kleist, Stifter, Meyer, Keller, Storm, and Fontane. Prerequisite(s): GER 214. 3 credit(s)

**GER 480 - Modern German Literature I**

Study of German literature from Naturalism to the Second World War. Prerequisite(s): GER 214. 3 credit(s)

**GER 481 - Modern German Literature II**

Advanced study. Analysis of a wider range of works than in GER 480. Prerequisite(s): GER 480. 3 credit(s)

**GER 482 - Contemporary German Literature**

Study of German literature from the Second World War to the present. Prerequisite(s): GER 480. Prerequisite(s): GER 214. 3 credit(s)

**GER 487 - Study Abroad in Foreign Language, Literature, or Culture IV**

Senior-level course work in German language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): GER 301. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**GER 490 - Selected Topics of German Literature**

Concentrated study of themes, authors, periods, or topics related to German literature. Prerequisite(s): GER 214. May be repeated to a maximum of six credits. 3 credit(s)

**GER 499 - Intensive Advanced German Texts in the Humanities**

Supplements English-language content of selected 400-level or above courses in the College of Liberal Arts with course-appropriate readings in German for language credit. Offered only in conjunction with specific instructors and course sections. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 3 credit(s)

**GRE 113 - Classical Greek I**

First-year classical Greek grammar, reading, and vocabulary building. 3 credit(s)

**GRE 114 - Classical Greek II**

First-year classical Greek grammar, reading, and vocabulary building. Prerequisite(s): GRE 113 or equivalent. 3 credit(s)

**GRE 115 - Modern Greek I**

First-year modern Greek grammar, reading, and vocabulary building. 3 credit(s)

**GRE 213 - Classical Greek III**

Second-year classical Greek grammar, reading, and vocabulary building. Prerequisite(s): GRE 114 or equivalent. 3 credit(s)

**GRE 331 - Greek Literature in Translation**

Selected masterpieces of Greek literature in English translations. 3 credit(s)

**HEB 113 - Elementary Hebrew I and II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Note(s): See department for placement 3 credit(s)

**HEB 114 - Elementary Hebrew I and II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Note(s): See department for placement 3 credit(s)

**HEB 213 - Intermediate Hebrew I and II**

Structural review, conversation, reading, and writing. Prerequisite(s): HEB 114 or equivalent achievement on the placement test. 3 credit(s)

**HEB 214 - Intermediate Hebrew I and II**

Structural review, conversation, reading, and writing. Prerequisite(s): HEB 114 or equivalent achievement on the placement test. 3 credit(s)

**ITAL 100 - Italian: Elementary Conversation**

Intensive practice in oral Italian at the first-year level: emphasis on communication, vocabulary acquisition and pronunciation. Instruction in grammatical structure as needed. 1-3 credit(s)

**ITAL 113 - Elementary Italian I**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Note(s): See department for placement 3 credit(s)

**ITAL 114 - Elementary Italian II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Prerequisite(s): ITAL 113 or equivalent. Note(s): See department for placement 3 credit(s)

**ITAL 187 - Study Abroad in Foreign Language, Literature, or Culture I**

Elementary course work in Italian language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**ITAL 200 - Italian: Intermediate Conversation**

Intensive practice in oral Italian at the second-year level: emphasis on communication, vocabulary expansion and fluency development. Discussion based on selected readings and current events. Prerequisite(s): ITAL 100 or equivalent ability. 1-3 credit(s)

**ITAL 213 - Intermediate Italian I**

Structural review, conversation, reading, and writing. Prerequisite(s): ITAL 114 or equivalent. 3 credit(s)

**ITAL 214 - Intermediate Italian II**

Structural review, conversation, reading, and writing. Prerequisite(s): ITAL 213 or equivalent. 3 credit(s)

**ITAL 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Intermediate course work in Italian language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**ITAL 300 - Italian: Advanced Conversation**

Intensive practice in oral Italian at the third-year level: vocabulary expansion and fluency development. Discussion based on selected readings and current events. Prerequisite(s): ITAL 214 or equivalent ability. 1-3 credit(s)

**ITAL 301 - Third-Year Italian: Composition and Conversation**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): ITAL 214 or equivalent achievement on placement test. 3 credit(s)

**ITAL 302 - Third-Year Italian: Composition and Conversation**

Development of oral proficiency, writing skills, and reading for comprehension. Prerequisite(s): ITAL 301, or equivalent achievement on the placement test. 3 credit(s)

**ITAL 303 - Third-Year Readings in Italian: Subtitle Varies**

Reading of authentic Italian literary texts: emphasis on vocabulary expansion and pronunciation. Prerequisite(s): ITAL 214. May be repeated to a maximum of 6 credits with different subtitle. Note(s): Taught in Italian. 3 credit(s)



**ITAL 315 - Italian Translation I**

Introduction to the theory of translation and guidance in the use of materials essential to the translation process. Practice in the translation of texts in various fields from Italian into English and English into Italian. Prerequisite(s): ITAL 302 or equivalent. 3 credit(s)

**ITAL 321 - Italian Culture and Civilization**

General study of Italy from earliest times to the present; its cultural, social, economic and political evolution; its present problems and its role in the world today. Prerequisite(s): Nine credits of English composition and literature. Note(s): Taught in English. 3 credit(s)

**ITAL 322 - Italian Popular Culture**

Examines different aspects of Italian popular culture, from earliest times to the present. Shows the integration of history, geography and folklore in Italy. Analyzes the relationship of food, culture and society in specific regional and cultural groups. Prerequisite(s): Nine credits of English composition and literature. Note(s): Taught in English. 3 credit(s)

**ITAL 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Advanced course work in Italian language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): ITAL 214. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**ITAL 401 - Advanced Italian Grammar and Composition I**

Advanced grammar course designed to improve writing skills for students at the senior level. Taught entirely in the target language. Prerequisite(s): ITAL 302 or consent of instructor. 3 credit(s)

**ITAL 402 - Advanced Italian Grammar and Composition II**

Advanced grammar course designed to improve writing skills for students at the senior level. Taught entirely in the target language. Prerequisite(s): ITAL 401 or consent of instructor. 3 credit(s)

**ITAL 403 - Advanced Reading Proficiency in Italian**

Develops advanced reading skills in Italian through textual analysis of a broad range of reading materials. Prerequisite(s): ITAL 302 or ITAL 402, or consent of instructor. Note(s): This course is cross-listed with ITAL 603. Credit at the 600-level requires additional work. 3 credit(s)

**ITAL 409 - Independent Study**

Independent study taken under the supervision of a faculty member. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**ITAL 440 - Topics in Italian Literature**

Concentration on main authors, themes, regions, periods and movements in Italian literature. Prerequisite(s): ITAL 302, or nine credits of English composition and literature. Course may be repeated as topic varies. 3 credit(s)

**ITAL 449 - Italian Culture Through Films**

Studies relationship of Italian cinema to Italian culture. Examines particular genres, directors and traditions unique to Italian cinema. Prerequisite(s): Nine credits of English Composition and Literature. Taught in English. 3 credit(s)

**ITAL 462 - Divine Comedy**

A select reading in the Divine Comedy with some reference to other works, *Convivio*, *Monarchia*, and *Vita Nuova*. Prerequisite(s): Nine credits of English composition and literature. Note(s): Taught in English. This course is cross-listed with ITAL 662. Credit at the 600-level requires additional work. 3 credit(s)

**ITAL 463 - Boccaccio's Decameron**

Reading of Boccaccio's Decameron within the Italian novella tradition. Prerequisite(s): Nine credits of English composition and literature. Note(s): Taught in English. This course is cross-listed with ITAL 663. Credit at the 600-level requires additional work. 3 credit(s)

**ITAL 487 - Study Abroad in Foreign Language, Literature, or Culture IV**

Senior-level course work in Italian language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): ITAL 287. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**ITAL 490 - Topics in Italian Studies**

Comprehensive study of a particular aspect of Italian life, art, history and culture. Prerequisite(s): nine credits of English composition and literature. Course may be repeated as topic varies. Note(s): Taught in English. 3 credit(s)

**JPN 113 - Elementary Japanese I**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Note(s): See department for placement. 3 credit(s)

**JPN 114 - Elementary Japanese II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Prerequisite(s): JPN 113 or equivalent. Note(s): See department for placement. 3 credit(s)

**JPN 213 - Intermediate Japanese I**

Structural review, conversation, reading, and writing. Prerequisite(s): JPN 114 or equivalent achievement on the placement test. 3 credit(s)

**JPN 214 - Intermediate Japanese II**

Structural review, conversation, reading, and writing. Prerequisite(s): JPN 213 or equivalent. 3 credit(s)

**JPN 301 - Third-Year Japanese I**

Development of speaking and listening skills. Authentic texts introduced with the aim of achieving basic literacy in modern written Japanese. Prerequisite(s): JPN 214 or equivalent achievement on the placement test. 3 credit(s)

**JPN 302 - Third-Year Japanese II**

Development of speaking and listening skills. In addition, authentic texts introduced with the aim of achieving basic literacy in modern written Japanese. Prerequisite(s): JPN 301 or equivalent achievement on the placement test. 3 credit(s)

**JPN 401 - Advanced Japanese Composition I**

Composition course designed to improve writing skills for students at the senior level with an emphasis on stylistics. Prerequisite(s): JPN 302. Note(s): Taught in Japanese. 3 credit(s)

**JPN 416 - Japanese for Business I**

Study of vocabulary and culture knowledge required in Japanese-speaking business setting. Includes a review of grammar, reading, and writing exercise to develop fluency in business-related communicative situations. Prerequisite(s): JPN 302. Note(s): Taught in Japanese. 3 credit(s)

**JPN 417 - Japanese for Business II**

Designed for students who have completed JPN 416 and wish to familiarize themselves with common rules as well as practices of Japanese in business setting and to acquire further ready-to-use communicative skills in business Japanese at various levels of formality. Prerequisite(s): JPN 416. Note(s): Taught in Japanese. 3 credit(s)

**JPN 425 - Topics in Japanese Culture**

For students who have completed JPN 302 and who wish to broaden their knowledge of the Japanese language, society and culture. Prerequisite(s): JPN 302. May be repeated to a maximum of six credits. Note(s): Taught in Japanese. 3 credit(s)

**LAT 113 - Elementary Latin I**

First-year Latin grammar, reading, and vocabulary building. Note(s): See department for placement. 3 credit(s)

**LAT 114 - Elementary Latin II**

First-year Latin grammar, reading, and vocabulary building. Prerequisite(s): LAT 113 or equivalent. Note(s): See department for placement. 3 credit(s)

**LAT 213 - Intermediate Latin I**

Intermediate Latin grammar, reading, and vocabulary expansion. Prerequisite(s): LAT 114 - Elementary Latin II or equivalent. 3 credit(s)

**LAT 214 - Intermediate Latin II**

Intermediate Latin grammar, reading, and vocabulary expansion. Prerequisite(s): LAT 213 or equivalent. 3 credit(s)

**LAT 331 - Latin Literature in Translation**

Selected masterpieces of Latin literature in English translation. Prerequisite(s): Nine credits of English composition and literature. 3 credit(s)

**SPAN 113 - Elementary Spanish I**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Note(s): See department for placement. 3 credit(s)

**SPAN 114 - Elementary Spanish II**

Development of language skills in listening, speaking, reading, and writing; structural analysis. Emphasis placed on speaking. Prerequisite(s): SPAN 113 or equivalent. Note(s): See department for placement. 3 credit(s)

**SPAN 115 - Intensive Spanish**

Combination of SPAN 113 and SPAN 114. Development of language skills in listening, speaking, reading, and writing; structural analysis. 6 credit(s)

**SPAN 126 - Introduction to Spanish for Heritage Speakers**

This course focuses on expanding intermediate-level vocabulary, developing oral and written skills to prepare students for second year courses. The course was designed for students who grew up, or spent significant amounts of time, in a Spanish-speaking environment but need to develop vocabulary and written skills. 3 credit(s)

**SPAN 187 - Study Abroad in Foreign Language, Literature, or Culture I**

Elementary course work in Spanish language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**SPAN 198 - Reading Proficiency in Spanish for Graduate Students**

Enables graduate students to develop vocabulary and skill in rapid reading of Spanish through translation into English. Open only to graduate students. Taught in English. Prerequisite(s): Graduate standing. 3 credit(s)

**SPAN 213 - Intermediate Spanish I**

Grammar, conversation, reading, and writing. Prerequisite(s): SPAN 114 or equivalent. Note(s): Not open to students who have credit for SPAN 226-227. 3 credit(s)

**SPAN 214 - Intermediate Spanish II**

Grammar, conversation, reading, and writing. Prerequisite(s): SPAN 213 or equivalent. Note(s): Not open to students who have credit for SPAN 226-227. 3 credit(s)

**SPAN 226 - Spanish for Heritage Speakers I**

Intended for students who have a Spanish language background but little or no formal training. Emphasis on writing skills, grammar, and vocabulary enrichment. Prerequisite(s): Consent of instructor. Note(s): Not open to students who have credit for SPAN 213-214. 3 credit(s)

**SPAN 227 - Spanish for Heritage Speakers II**

Intended for students who have a Spanish language background but little or no formal training. Emphasis on writing skills, grammar, and vocabulary enrichment. Prerequisite(s): Consent of instructor. Note(s): Not open to students who have credit for SPAN 213 - SPAN 214. 3 credit(s)

**SPAN 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Intermediate course work in Spanish language, literature, or culture. Offered through the Office of International Programs. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**SPAN 301 - Third-Year Spanish: Conversation and Composition**

Intensive practice in oral Spanish at the third-year level; includes some review of certain key grammar points and development of writing skills. Not open to heritage speakers or others who speak Spanish with native fluency. Prerequisite(s): SPAN 214. 3 credit(s)

**SPAN 302 - Third-Year Spanish: Grammar and Composition**

Review of key grammar points and development of writing skills. Prerequisite(s): SPAN 214 or SPAN 227. Note(s): May be taken before, after, or concurrently with, SPAN 301. 3 credit(s)

**SPAN 304 - Introduction to Hispanic Linguistics**

Provides a general overview of Hispanic linguistics, with emphasis on the phonology, morphology, and syntax of modern Spanish within a theoretical framework. Prerequisite(s): SPAN 302. Taught in Spanish. 3 credit(s)

**SPAN 312 - Spanish Phonetics and Phonology**

Study of the sound system of Spanish, especially as contrasted with English. Spanish pronunciation practice designed to achieve greater authenticity as well as to teach a native-like pronunciation to others. Prerequisite(s): SPAN 302 or approval of instructor. 3 credit(s)

**SPAN 315 - Introduction to Translation**

Introduction to the theory of translation and guidance in the use of materials essential to the translation process. Practice in the translation of texts in various fields from Spanish into English and English into Spanish. Prerequisite(s): SPAN 302. 6 credit(s)

**SPAN 317 - Interpretation I**

Formerly Listed as SPAN 316.

Introduction to the profession of interpreter. Students practice techniques of consecutive, simultaneous, and sight interpreting while expanding their knowledge of the terminology used by interpreters in a variety of settings, with emphasis on court interpretation. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 341 - Introduction to Spanish Literature I**

Comprehensive view of Spanish literature from its beginnings to the present day. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 342 - Introduction to Spanish Literature II**

Comprehensive view of Spanish literature from its beginnings to the present day. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 343 - Introduction to Spanish American Literature I**

Comprehensive view of Spanish American literature from its beginnings to the present day. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 344 - Introduction to Spanish American Literature II**

Comprehensive view of Spanish American literature from its beginnings to the present day. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 350 - Topics in Hispanic Literature**

Topics may focus on a single author or novel, on a particular theme or period in Hispanic literature. Prerequisite(s): SPAN 302 and one of the following: SPAN 341, SPAN 342, SPAN 343, and SPAN 344. May be repeated up to three times provided the subtitle is different. 3 credit(s)

**SPAN 365 - Business Spanish I**

Foundation in business vocabulary, the study of basic business and cultural concepts, and practice in situations necessary for function in today's Spanish-speaking business world. Includes a review of grammar, reading and writing exercise, and the use of World Wide Web for Spanish-language resources. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 366 - Business Spanish II**

Foundation in business vocabulary, the study of basic business and cultural concepts, and practice in situations necessary for function in today's Spanish-speaking business world. Includes a review of grammar, reading and writing exercise, and the use of World Wide Web for Spanish-language resources. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 367 - Spanish for the Social Services**

Study of the main socio-cultural characteristics of the Hispanic world and the specialized vocabulary and the specific situations related to social services. Includes advanced readings, in Spanish, from corresponding fields. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 368 - Spanish for the Tourism Industry**

Advanced study of vocabulary and specific situations related to the tourism industry. In addition to grammar review, includes translating and interpreting activities that match real world demands. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 369 - Spanish for the Legal Profession**

Solid foundation in the vocabulary and discourse related to areas such as family law, property, insurance, immigration, international finance, and business law. Presented within specific American contexts and aimed at cross-cultural understanding. Includes the development of speaking, listening, reading, and writing necessary for these fields. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 370 - Spanish for the Medical Profession**

Development of a wide, practical knowledge of language related to the health sciences with a focus on the understanding of and interaction with Spanish-speaking patients. Includes pertinent reading, grammar, and vocabulary. Prerequisite(s): SPAN 302. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Advanced course work in Spanish language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): SPAN 214. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**SPAN 401 - Reading Proficiency in Spanish**

Develops advanced reading skills in Spanish. Covers a broad range of reading materials. Advanced oral proficiency developed through critical discussion of texts. Prerequisite(s): SPAN 302. 3 credit(s)

**SPAN 402 - Advanced Reading and Writing Techniques in Spanish**

Further development of advanced reading and composition skills in Spanish. Readings used to study the organization, underlying structures, and inner mechanisms of texts. Prerequisite(s): SPAN 401. 3 credit(s)

**SPAN 409 - Independent Study**

Independent study under the direction of a faculty member. May be repeated to a maximum of six credits. 1-3 credit(s)

**SPAN 410 - Topics in Hispanic Linguistics**

Study of current approaches to different aspects of Hispanic linguistics. Prerequisite(s): SPAN 302. May be repeated with a different topic for a maximum of six credits. 3 credit(s)

**SPAN 412 - Advanced Translation**

Continuation of Translation I. Examines the main aspects of contrastive grammar and stylistics used in Spanish/English translation, while providing practical opportunities to incorporate and apply the material. Through lectures and practical translation exercises, students also exposed to a variety of translation fields. Prerequisite(s): SPAN 315. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 413 - Interpretation II**

Continuation of Interpretation I. Students practice the techniques of consecutive, simultaneous, and sight interpreting while expanding their knowledge of the terminology used by interpreters in a variety of settings, with an emphasis on court interpretation. Prerequisite(s): SPAN 316. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 425 - Topics in Hispanic Culture**

Analysis of different aspects of Hispanic culture, through art, mass media, and popular traditions. Prerequisite(s): SPAN 302. May be repeated with a different topic for up to six credits. Note(s): Taught in Spanish. 3 credit(s)

**SPAN 450 - Advanced Topics in Hispanic Literature**

In-depth critical study of selected themes, modes, literary forms and strategies in Hispanic literature. Prerequisite(s): SPAN 302 and one of the following: SPAN 341, SPAN 342, SPAN 343, and SPAN 344. May be repeated up to 3 times provided the sub-title is different. Note(s): This course is cross-listed with SPAN 650. Credit at the 600-level requires additional work. 3 credit(s)

**SPAN 487 - Study Abroad in Foreign Language, Literature, or Culture IV**

Senior-level course work in Spanish language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): SPAN 301. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**SPAN 496 - Spanish Dialectology**

Study of different regional varieties of the Spanish language throughout the world, including differences in pronunciation, grammar, and vocabulary. Sociolinguistic aspects also covered. Prerequisite(s): SPAN 302. Note(s): This course is cross-listed with SPAN 696. Credit at the 600-level requires additional work. 3 credit(s)

**WLC 187 - Study Abroad in Foreign Language, Literature, or Culture I**

Elementary course work in language, literature, or culture. Offered through the Office of International Programs. May be repeated for a maximum of thirty credits. 1-4 credit(s)

**WLC 198 - Reading Proficiency in a Foreign Language for Graduate Students**

Formerly Listed as FOL 198.

Enables graduate students to develop vocabulary and skill in rapid reading of target language through translation into English. Target language varies per semester. Taught in English. May not be used toward an FOL degree. Prerequisite(s): Graduate standing. 3 credit(s)

**WLC 287 - Study Abroad in Foreign Language, Literature, or Culture II**

Formerly Listed as FOL 287

Intermediate course work in language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): WLC 187. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**WLC 311 - Current Linguistic Theory**

Formerly Listed as FOL 311

Examination of current linguistic theory, including basic phonetic transcription, speech sounds, forms, and words in the systems of phonology, morphology, and syntax. Language use in society and language change. Prerequisite(s): Two years of foreign language instruction at the university level. 3 credit(s)

**WLC 387 - Study Abroad in Foreign Language, Literature, or Culture III**

Formerly Listed as FOL 387

Advanced course work in language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): WLC 287. May be repeated to a maximum of thirty credits. 1-4 credit(s)

**WLC 414 - Romance Linguistics**

Formerly Listed as FOL 414

Historical development of the Romance languages from Latin. Comparison of the structure of the modern Romance languages. Emphasis on Spanish, French, and Italian. Prerequisite(s): Two years of a Romance language. 3 credit(s)

**WLC 416 - Comparative Linguistics: Languages of the World**

Formerly Listed as FOL 416

Material and functioning of languages in human society examined in theory and on the basis of illustrative examples from a variety of different languages, including English. Interdisciplinary course conducted in English. 3 credit(s)

**WLC 487 - Study Abroad in Foreign Language, Literature, or**

## **Culture IV**

Formerly Listed as FOL 487

Senior-level course work in language, literature, or culture. Offered through the Office of International Programs. Prerequisite(s): WLC 287. May be repeated to a maximum of thirty credits. 1-4 credit(s)

## **WLC 499 - Application of Linguistics to the Teaching of Languages**

Formerly Listed as FOL 499

Examination of second language acquisition theory and its application to the teaching of foreign languages. Prerequisite(s): Two years of a foreign language at the university level. 3 credit(s)

# **Department of History**

## ***Purpose and Focus***

The History Department seeks first to provide students with a broad knowledge of the human past and experience and the appreciation of diverse cultures crucial in a smaller and smaller world. A degree in history also provides students with the skills necessary for success in a wide range of careers and professions ranging from business to law, social services, and education. These skills include training in the collection, analysis, and evaluation of information; critical thinking; clarity of expression orally and in writing; and the ability to make independent judgments. Finally, the department seeks to train majors in the specific skills and knowledge necessary for public school teaching and for graduate study in history or in professional schools.

## ***Degree Objectives/Learning Outcomes***

Students completing the baccalaureate program will:

1. Demonstrate a broad knowledge of the human past.
2. Demonstrate training in the collection, analysis and evaluation of information; critical thinking and the ability to make independent judgments; and clarity of expression orally and in writing.
3. Be prepared for positions in a variety of fields, for graduate study in history or professional schools, or for public school teaching.

## ***Accreditation***

Northwest Commission on Colleges and Universities

## ***Department Policies***

**Transfer Policy:** Students wishing to transfer credit toward a Bachelor of Arts in History must schedule a formal meeting with an advisor at the Wilson Advising Center.

**Major Areas of Interest:** Asia, Europe, Latin America, and United States

In consultation with an advisor, a history major selects an interest area from the four principal geographical areas.

**Minor Areas of Interest:** Asia, Europe, Latin America, United States and Methodological or Topical.

In consultation with an advisor, a history major selects a minor concentration from the four principal geographical areas. With departmental approval, a student may devise a topical or methodologically defined minor.

**Progression:** The progress of individual students is monitored by the Wilson Advising Center.

## ***Advisement***

Incoming students must seek advising from the Wilson Advising Center on both requirements in the major and general education requirements. Every student majoring in history must keep regular appointments with his or her advisor in the Wilson Advising Center. Failure to seek academic advising may result in delays of anticipated date of graduation.



## History Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, History Department web page at [history.unlv.edu](http://history.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. Demonstrate a broad knowledge of the development of the world history from antiquity to the present.
2. Demonstrate knowledge of two of the four geographical areas including United States, Latin America, Europe and Asia.
3. Demonstrate an awareness of the changing nature of historical interpretation and the ability to make independent judgments about conflicting historical interpretations.
4. Demonstrate training in the collection, analysis and evaluation of historical information.
5. Demonstrate training in critical thinking and the ability to construct a cogent argument on the basis of historical information.
6. Demonstrate training in clarity of expression orally and in writing.

### University Graduation Requirements

- Please see Graduation Policies for complete information

History Requirements ..... Total: 120 Credits  
(see note 1 below)

General Education Requirements ..... Subtotal: 36-38 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

Major Requirements - BA in History ..... Subtotal: 60 Credits

Foreign Language/Foreign Culture ..... Credits: 6

Humanities ..... Credits: 6

Fine Arts ..... Credits: 6

History Major Requirements ..... Credits: 42

At least four courses (12 credits), as specified below.

At least one from among the following courses that are devoted substantially to the time period prior to 1800:

- HIST 105 - European Civilization to 1648
- HIST 208 - World History I
- HIST 227 - Introduction to Latin American History and Culture I

At least one from among the following courses that are devoted substantially to the time period since 1650:

- HIST 106 - European Civilization Since 1648
- HIST 209 - World History II
- HIST 228 - Introduction to Latin American History and Culture II

At least one from among the following courses which offer geographical and thematic breadth:

- HIST 101 - United States: Colonial Period to 1877
- HIST 102 - United States Since 1877
- HIST 103 - Global Problems in Historical Perspective \*
- HIST 110 - History of Multicultural America \*
- HIST 151 - Introduction to Japanese Civilization

(\* = may be taken twice if two different topics.)

Complete both:

- HIST 251 - Introduction to Historical Methods
- HIST 451 - Capstone Research Seminar

Four upper-division (300- or 400- level) HIST courses in major area of interest

Two upper-division (300- or 400- level) HIST courses in minor area of interest

Two additional upper-division (300- or 400-level) HIST courses

Electives ..... Credits: 22-24

Total Credits: ..... 120

### Note

1. All history courses must be completed with a grade of C- or higher to be counted towards the degree program.

### History Minor

Courses Include ..... Total Credits: 21

Six credits of 100- level courses

- HIST 251 - Introduction to Historical Methods

and twelve credits of upper-division courses (of which three credits may be at the 300- level).

### History

#### HIST 100 - Historical Issues and Contemporary Society

Designed to create, particularly for the non-major, an awareness of the ideas, individuals, and social forces that have shaped history. Sources include art, biography, drama, fiction, and film. Note(s): (Satisfies the United States and Nevada Constitutions Requirement.) 4 credit(s)

#### HIST 101 - United States: Colonial Period to 1877

Survey of United States political, social, economic, diplomatic, and cultural developments from colonial times to 1877. Includes examination of the United States Constitution.

Note(s): (Satisfies the United States Constitution Requirement.) 3 credit(s)

#### HIST 102 - United States Since 1877

Survey of United States political, social, economic, diplomatic, and cultural developments from 1877 to the present. Includes examination of the Nevada Constitution. Note(s): (Satisfies the Nevada Constitution Requirement.) 3 credit(s)

**HIST 103 - Global Problems in Historical Perspective**

Introduction to selected contemporary issues in the world beyond North America, understood through their historical origins and causes. For majors or non-majors seeking a greater understanding of the wider world today. Topics vary. May be repeated to a maximum of six credits. 3 credit(s)

**HIST 105 - European Civilization to 1648**

Survey of the development of Western civilization from the dawn of history to 1648. 3 credit(s)

**HIST 106 - European Civilization Since 1648**

Survey of the development of Western civilization from 1648. 3 credit(s)

**HIST 110 - History of Multicultural America**

An introduction to the history of a variety of multicultural groups and interactions in American history. Specific topics vary with the instructor. 3 credit(s)

**HIST 150 - Introduction to Chinese Civilization**

Introductory survey of the growth and development of Chinese civilization, with emphasis on philosophy, literature, the arts, and society from 2205 B.C. to the present. 3 credit(s)

**HIST 151 - Introduction to Japanese Civilization**

Introductory survey of the growth and development of Japanese civilization, with emphasis on philosophy, literature, the arts, and society from 2205 B.C. to the present. 3 credit(s)

**HIST 208 - World History I**

A survey of the societies and cultures of Asia, Africa, the Middle East, Europe, the Americas and Oceania to 1600. 3 credit(s)

**HIST 209 - World History II**

A review of the principal developments in world history since 1600, including scientific and technological revolutions, social revolutions, nationalism, immigration, colonialism, world wars, decolonization, modernization, democracy and dictatorships. 3 credit(s)

**HIST 217 - Nevada History**

Nevada history from early exploration to the present. Primarily for those not majoring in history. Note(s): (Satisfies the Nevada Constitution Requirement.) 3 credit(s)

**HIST 227 - Introduction to Latin American History and Culture I**

Survey of the development of the Iberian states as colonizing powers, the discovery and conquest of America, the growth of political, social, and economic institutions during the Colonial Period (c. 1492 to c. 1810), as well as substantial discussion of the legacy of the Colonial Period. 3 credit(s)

**HIST 228 - Introduction to Latin American History and Culture II**

Survey of the historical development of Spanish and Portuguese America from the independence movements, c. 1810 - 1825, to the present day, including an examination of the countries' differing approaches to dealing with the social, economic, political and cultural legacies of Iberian colonialism. 3 credit(s)

**HIST 251 - Introduction to Historical Methods**

Introduction to the basic concepts and techniques of historical investigation and writing. Prerequisite(s): Three credits of history. 3 credit(s)

**HIST 252 - History and New Media**

Overview of the use of digital, interactive and computational technologies in the discipline of history, for research, teaching and public history. Discusses theoretical concepts and provides applied training in digitization, database management, multi-media, computer-assisted research and analysis, and particularly use of the Internet and world wide web. 3 credit(s)

**HIST 279 - The News in Historical Perspective**

Current or recent public issues through examination of their historical

background. Each five-week, one-credit module covers one issue. See class schedule for topic listing. May be repeated to a maximum of three credits. 1 credit(s)

**HIST 301 - American Law and Disorder**

Analysis and interpretation of the relationship between American law and disorder from colonial times to modern times. Topics covered include witch trials, mobs, strikes, riots, the civil rights movement, the LA riots, and youth violence. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 307 - U.S. Involvement in Vietnam**

Analysis of the diplomatic and military rationale for U.S. intervention in Vietnam and the course of the war at home and abroad, including the effects on U.S. foreign policy, society, and politics. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 322 - Terrorism in the Russian Empire**

Analyzes terrorist violence - its motivations, its cultural implications, and its effects on processes of political and social change - in the late Russian Empire and the early Soviet years. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 323 - The End of Communism**

Analyzes the long-term and short-term causes of communism's demise in the USSR and elsewhere. Focuses especially on connections between socialist systems, federal state structures, national aspirations, and violence. Considers recent repercussions of the demise of these states. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 333 - Comparative Slavery**

Compares the impact of African slavery in Europe and in various European colonies in the Americas. Considers the range of effects of the institution of slavery, as well as of slaves' knowledge, skills, and labor, on the social, cultural, and economic development of these areas. Prerequisite(s): 3 credits of History or 3 credits of Social Sciences. 3 credit(s)

**HIST 348 - World War I: Origins, Experience, Memory**

World War I as a central set of formative moments in the political, economic, social, and cultural history of twentieth-century Europe. Explores diplomacy, military and home fronts and the organization and articulation of memory. Introduces students to the complexities of historical process and war as something more profound than a set of military engagements. 3 credit(s)

**HIST 349 - From Asia to America**

Comparatively explores the lives of Chinese, Japanese, Korean, Filipino, Southeast Asian, and Indian immigrants in the Hawaiian Islands and the United States. Covers the period from the seventeenth century until the present, with special emphasis on multicultural diversity in the twenty-first century. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 350 - History of Modern Africa**

Concentrates on the distinct social, cultural, intellectual, political and economic changes in sub-Saharan Africa during the colonial and post-independence periods. Concerned primarily with internal transformations in local societies and how Africans perceived and experienced these changes. Special attention given to the slave trade, the development of interior states, European partition, the colonial period, and the rise of independent Africa. Prerequisite(s): ENG 102. 3 credit(s)

**HIST 362 - Passions of the French: France Since 1815**

French history from fall of Napoleon to the present. Topics include the revolutionary tradition, urbanization, class formation, social and political status of women, changing ideals of masculinity and femininity, industrialization and economic dislocation in the countryside, fascism, role of intellectuals, decolonization, immigration and changing ideals of national identity. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 367 - The Holocaust in Its European Setting**

Analysis and interpretation of the Nazi Holocaust as an event in European history. Topics include the definition and nature of genocide, racism, and National Socialism. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 369 - Culture and Technology in America**

Examines the role of technology in American culture, from the first industrial revolution to the early nineteenth century to the present. Key themes include the invention of new technologies and debates over the advantages and drawbacks of industrialization, mass production, and information technologies. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 375 - Topics in Sports History**

Examines selected topics in American and/or international sport history in depth. Topics may include sport and race, sport and gender, sport and culture and histories of specific sports (soccer, football, baseball, cricket, etc.). Prerequisite(s): ENG 102. May be repeated to a maximum of six credits. 3 credit(s)

**HIST 386A - Military History of the United States to 1900**

Development of the U.S. military establishment and its employment in selected campaigns and battles from the colonial period to 1900, studied in the context of general American history. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 386B - Military History of the United States Since 1900**

Continued development of the U.S. military establishment and its employment in selected campaigns and battles since 1900. Studied in the context of general American history. Prerequisite(s): ENG 101 and ENG 102. 3 credit(s)

**HIST 388 - Great Personalities in History**

Examines the lives of great historical figures to gain insight into their times. Topics vary. 3 credit(s)

**HIST 401 - American Constitutional and Legal History**

Analysis and interpretation of the life of the law in America from the seventeenth century to modern times. Though designed to complement one another, each half of this course may be taken independently. Prerequisite(s): Six credits of history. Note(s): (HIST 401 satisfies the U.S. Constitution Requirement; HIST 402 satisfies the Nevada Constitution Requirement.) 3 credit(s)

**HIST 402 - American Constitutional and Legal History**

Analysis and interpretation of the life of the law in America from the seventeenth century to modern times. Though designed to complement one another, each half of this course may be taken independently. Prerequisite(s): Six credits of history. Note(s): (HIST 401 satisfies the U.S. Constitution Requirement; HIST 402 satisfies the Nevada Constitution Requirement.) 3 credit(s)

**HIST 404A - American Social History to 1860**

Analysis of demography, social structure and mobility factors, and societal institutions of the United States during its formative era. Special attention given to social issues and humanitarian reformism, and to sectional tensions arising from the antislavery movement. Chronological coverage extends from colonial period to Civil War, with emphasis on 1760-1850. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 604A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 404B - American Social History, 1865-Present**

Examination of U.S. social development since the Civil War, focusing upon problems arising from industrialism, immigration, and urbanism. Analysis of the responsive emergence of the welfare state in the Progressive, New Deal, and post World War II eras, supplemented by study of current issues of racism, sexism, and contemporary counterculture. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 604B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 405 - History of the New South**

Analysis of the post-1865 American South and its regional distinctiveness, with particular emphasis on the rise and decline of one-party politics, economic development from Civil War devastation to the Sunbelt, race relations and the civil rights movement, and the South's influence on U.S. foreign relations. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 605. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 406A - The American West to 1849**

Narrative and interpretive study of the development of the West by imperial European powers and Americans to the California Gold Rush. Emphasis on the westward movement and its role in American history. Prerequisite(s): Six credits of history. Notes: This course is cross-listed with HIST 606A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 406B - The American West Since 1849**

Narrative and interpretive study of the economic, political, and social developments in the trans-Mississippi West from the California Gold Rush to the present. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 622. Credit at the 600-level requires additional work. This course is cross-listed with HIST 606B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 407A - United States Foreign Relations I**

Analysis of the domestic origins, implementation, and international consequences of U.S. foreign relations from 1920 to the present. Includes diplomatic, economic, and cultural relations. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 607A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 407B - United States Foreign Relations II**

Analysis of the domestic origins, implementation, and international consequences of U.S. foreign relations from 1920 to the present. Includes diplomatic, economic, and cultural relations. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 607B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 410A - American Cultural and Intellectual History I**

Developments in cultural, intellectual, and religious history from European contact to the Civil War. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 610A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 410B - American Cultural and Intellectual History II**

Developments in cultural, intellectual, and religious history from the Civil War to the present. Prerequisite(s): Six credits of history. 3 credit(s)

**HIST 411 - United States: Colonial Period**

Origins of the North American colonies, development of colonial society, culture, and institutions; background factors involved in the American Revolution. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 611. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 412 - United States: Revolution and the New Republic**

Examination of the course and impact of the American Revolution; the adoption of the Constitution; and the political, diplomatic, and economic developments during the early national period. Prerequisite(s): Six credits of history. Note(s): (Satisfies the United States Constitution Requirement.) This course is cross-listed with HIST 612. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 414A - United States: National Period, 1815-1860**

Era of Good Feelings; the Age of Jackson; the problems of expansion; the growing controversy over slavery to the secession of South Carolina in December 1860. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 614A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 414B - United States: Civil War and Reconstruction, 1860-1877**

Era of the Civil War from secession in 1860 to the close of hostilities in 1865; presidential and congressional Reconstruction until the close of this era in 1877. Prerequisite(s): Six credits of history. Note(s): This course is cross-listed with HIST 614B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 415A - United States: The Gilded Age, 1877-1900**

Analysis and interpretation of the impact of industrialization, immigration and urbanization upon the American experiment in republicanism. Examines how diverse Americans, including ex-slaves, farmers, feminists, "new" immigrants,



Plains Indians, radicals, soldiers, statesmen, industrialists and laborers responded to these unsettling conditions and helped to usher in the modern age. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 615A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 415B - United States: The Progressive Period, 1900-1920**

Analysis and interpretation of the dramatic social, cultural, and political changes that occurred in the United States between 1900 and 1920 in the period known as the Progressive Era. Examines how Americans fashioned responses to the challenges posed by the modernization and diversification of their society. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 615B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 416A - Recent America: Era of Franklin D. Roosevelt, 1920-1945**

Examination of social, economic, and political trends in the 1920s and of the transition from inflated prosperity to the Great Depression of the 1930s. Special attention to F.D.R. presidential role, to the New Deal and concurrent domestic problems, and to foreign policy issues. Coverage includes U.S. entrance and role in World War II. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 616A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 416B - Contemporary America: The U.S. Since 1945**

Formerly Listed as HIST 417

Cold War abroad and readjustments bringing affluence and anxieties at home. Special focus upon the Korean War, McCarthyism, Kennedy's New Frontier and Johnson's Great Society, "limited warfare" in Cuba and Vietnam, and the Nixon Administration. Social and political tensions of the '60s and '70s also examined. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 616B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 417A - Nevada and the Far West**

Study of the far western region, with emphasis on Nevada history. Includes research projects. Prerequisite(s): Six credits of history. Note(s): (Satisfies the Nevada Constitution Requirement.) This course is crosslisted with HIST 617A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 419A - Britain to 1750**

Analysis and interpretation of the economy, society, politics and culture of the British isles from earliest settlement to 1750. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 619A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 419B - Britain from 1750**

Analysis and interpretation of the economy, society, politics and culture of the British isles and British empire from 1750 to present. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 619B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 420 - Revolution in Central Europe: 1914 – Present**

Topics on the political and social change in Central Europe from the outbreak of World War I to the present. Prerequisite(s): Six credits of history. Note(s): Topics vary. 3 credit(s)

#### **HIST 421 - History of Russia to 1825**

Examination of the formation of Kievan Rus, the Mongol invasion, the emergence of Muscovite autocracy, religious schism, westernization in the seventeenth century and under Peter I, the establishment of serfdom, the problem of Empire, Catherine II and Alexander I. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 621. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 422 - History of Russia Since 1825**

Analysis of conservative modernization under Nicholas I, the birth of the intelligentsia, the Great Reforms, industrialization, revolution, the establishment of the Soviet State, stagnation under Brezhnev, Perestroika under Gorbachev, and the dissolution of the USSR. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 622. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 423A - History of Germany to 1848**

Analysis and interpretation of the institutional, social, economic, political and cultural development of the German states. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 623A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 423B - History of Germany Since 1848**

Analysis and interpretation of the institutional, social, economic, political and cultural development of the Germany to the present. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 623B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 424 - Role of Religion in American Culture**

Study of the relationship between religion and secular culture in the American experience from the colonial era to the present. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 624. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 425 - History of Southern Nevada**

History of the Nevada counties of Nye, Esmeralda, Mineral, Lincoln, and Clark since the arrival of the European. The case of southern Nevada used to illustrate techniques for the study of local history in general. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 625. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 426 - The American West Through Film**

Analyzes the relationships between the history of the American West, movie westerns, and the cultural climate of the United States after 1945. Six credits of history. Note(s): This course is crosslisted with HIST 626. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 428 - Role of Business in United States History**

Examines the growth and influence of business upon American history from colonial times to the present. Includes the role played by business groups in the American Revolution, adoption of the U.S. Constitution, westward expansion, the Civil War, World War II, and the development of major American cities. Prerequisite(s): Six credits of history. 3 credit(s)

#### **HIST 429 - History of American Labor, 1607-Present**

Analyzes the history of American working men and women from the founding of the American colonies to the present. Emphasis placed on significant events, institutions, and the ordinary lives of laborers themselves, all of which are viewed against the backdrop of an evolving capitalist economic system. Prerequisite(s): Six credits of history. 3 credit(s)

#### **HIST 432A - History of American Women to 1870**

Examines the history of women in the United States from the period of European contact to Reconstruction. Examines women's changing roles in the family, work force, politics, and social movements. Examines the historical experience of European colonists, Native Americans, African Americans, and immigrants. Prerequisite(s): Six credits of history. Note(s): Same as WMST 432A. This course is crosslisted with HIST 632A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 432B - History of American Women, 1870 to the Present**

Women's relationship to the economy and to political movements; changing ideals of womanhood; the demographic and sexual revolutions transforming family life and gender roles; and class, race, ethnic, and regional variations in female experience. Prerequisite(s): Six credits of history. Note(s): Same as WMST 432B. This course is crosslisted with HIST 632B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 433 - African-American History**

Topical approach to Black history that seeks to illuminate grand themes such as DuBois' notion of "double-consciousness," the dilemma of being both Black and American. Explores in depth such topics as religion, family, slavery, urban life, education, labor, culture, and politics. May be repeated to a maximum of nine credits. Note(s): Same as AAS 432. This course is crosslisted with HIST 633. Credit at the 600-level requires additional work. 3 credit(s)



**HIST 433B - African-American History to 1877**

An examination of African-American history to 1877 that considers roles of free and enslaved blacks in the shaping America's social, cultural, economic, and political developments. Themes include the slave trade, creation of race and slavery, gender, and African influences on both slave and American culture. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 633B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 433C - African-American History since 1877**

Examination of the emergence of African-Americans from the aftermath of the Civil War to the present. Themes include the restrictions imposed by Jim Crow, segregation beyond the South, the Civil Rights movement, inner city rebellions and the new Black cultural movement. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 633C. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 434 - Role of Cities in American History**

Growth of cities from colonial times to the present. Topics include urbanization, suburbanization, transportation innovations, crime, housing, and racial conflicts. Special emphasis given to the role of the city in American history. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 634. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 434A - European Urban History**

Investigation of the radical impact of industrial modernity upon the European metropolis from the eighteenth century onwards. Focuses on cultural, social, technological, and architectural developments in the major European cities, such as London, Paris, Vienna, and Berlin. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 634A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 435A - Early Modern Intellectual History**

Analysis and interpretation of European attitudes and ideas from the Renaissance to the Enlightenment, 1450-1775, including humanism, republicanism, Protestantism, science, liberalism, and early economic thinking. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 635A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 435B - Modern Intellectual History**

Analysis and interpretation of European attitudes and ideas since the Enlightenment, 1775-present, including Idealism, Marxism, cultural individualism, psychoanalysis, existentialism, and structuralism. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 635B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 435C - Topics in European Cultural and Intellectual History**

In-depth study of specific aspects of early modern and modern European cultural and intellectual history. Prerequisite(s): Six credits in History. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with HIST 635C. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 436 - Nazi Holocaust from the American Perspective**

Genocidal aspects of the Nazi Era in Germany. Special emphases on why Americans have become so Holocaust conscious and on the impact of the Holocaust on international Jewry. Note(s): This course is crosslisted with HIST 636. Credit at the 600-level requires additional work 3 credit(s)

**HIST 437 - Family History**

Study of how world wars, the Great Depression, and other historical events have affected American families and communities in the twentieth century. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 637. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 438A - American Indian History to 1851**

Examination of Indian peoples from early times to 1851. Includes Indian-white relations, U.S. Indian policy, concentration, assimilation, removal, and resistance to westward expansion. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 638A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 438B - American Indian History Since 1851**

Examination of Indian peoples from 1851 to the present. Focuses on impact of Indian culture on Indian-white relations, allotment, reservation life, Indian Reorganization Act, Termination, struggle for civil rights, self-determination, and economic development (gaming). Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 638B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 438C - Topics in American Indian History**

In-depth study of specific aspects of American Indian History. Prerequisite(s): Six credits of History. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with HIST 638C. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 440 - Regions in American Indian History**

Examination of the history and culture of Indian peoples in one or more of the following regions: Southwest, Pacific Northwest, Great Basin, Great Plains, Northeast, and Southeast. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 640. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 441 - American Environmental History**

Explores the relationship between human beings and the physical environment on the North American continent. Examines the way in which different cultural groups have used and transformed the continent. Examines the ebb and flow of consciousness about the environment from its roots in the nineteenth century to the rise of environmentalism in the twentieth century. Note(s): This course is crosslisted with HIST 641. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 443 - Comparative Environmental History**

Provides a comparative context for the study of global environmental history. Analyzes different societies, from the Sumerians to modern cultures, to discern their different uses of land, water, and other natural resources, as well as the ways in which social institutions applied to the physical environment over the ages. 3 credit(s)

**HIST 443A - Historic Preservation**

Examines the history and theory of the historic preservation movement in the United States, the legal basis for preservation of the built environment, and the practical methodology of historic preservation. Prerequisite(s): 6 credits of history. Note(s): This course is crosslisted with HIST 643A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 444 - Latinos in the American West**

Analysis of the history of Latinos beginning with the Spanish exploration of the New World, the resulting cultural encounters and emergence of a mixed frontier populace, and the present social, economic, and cultural roles of Latinos in American society. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 644. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 445 - Cultural History of Modern Russia**

Social conscience in Russian literature from Pushkin to Solzhenitsyn, populist realism in art and politics, cultural diversity of the Silver Age, and the effects of Socialist Realism. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 645. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 446 - History of the Russian Film**

Soviet cinema from the revolutionary films and pathbreaking theories of the 1920s (Eisenstein, Pudovkin, Vertov, Dovzhenko, and Kuleshov), through the constrictions of Socialist Realism, to the revival of a proud tradition in the decades since Stalin. Emphasis on Russian cultural traditions, contemporary historical context, and the demands of ideology. Note(s): Same as FIS 446. 3 credit(s)

**HIST 447 - Revolutionary Russia, 1905-1921**

Detailed analysis of the crisis of autocracy, the First World War, the Bolshevik seizures of power, and the early years of the proletarian dictatorship. Examines the experiment in parliamentary politics, the emerging nationalist movements in the empire's periphery, the institutionalization and extension

of violence during the World War, revolutionary and Marxist ideologies, peasant revolt, and the reasons for Bolshevik victory during the civil war. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 647. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 448 - Asian American History**

Examines the Asian American experience from the nineteenth century until the present with an emphasis on activities in the American West. Prerequisite(s): Six credits of history. 3 credit(s)

#### **HIST 449A - History of Japan to 1800**

Analysis and interpretation of Japanese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 649A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 449B - History of Japan Since 1800**

Analysis and interpretation of Japanese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 649B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 449C - Topics in Japanese History**

In-depth study of specific aspects of Japanese history. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with HIST 649C. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 451 - Capstone Research Seminar**

Directed research and writing. Introduction to basic historical writings and bibliography on a selected theme, followed by guided research leading to a substantial paper. Prerequisite(s): HIST 251; nine credits of history. May be repeated to a maximum of six credits. 3 credit(s)

#### **HIST 452A - Popular Culture in Nineteenth-Century America**

History of popular culture in the United States. Concept of culture scrutinized. Key themes include the development of market culture, the creation of an American aesthetic, sensationalism of public life, and creation of a cultural hierarchy. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 652A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 452B - Popular Culture in Twentieth-Century America**

History of popular culture in the recent United States. Key themes include the growth of mass media and mass culture, debates over the merits and effects of popular culture, and the relationship of so-called highbrow and lowbrow culture. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 652B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 453 - Women in Politics**

History of women in U.S. politics beginning with the suffrage movement and concluding with the most recent election. Topics include women as candidates, in office, as administrators, as lobbyists and as political activists. Concludes with a section on so-called women's issues, choice, domestic violence, child support, day care, women's health and current issues. Prerequisite(s): Six credits of history. Note(s): Same as PSC 401J & WMST 401J. 3 credit(s)

#### **HIST 455A - History of China to 1800**

Analysis and interpretation of Chinese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 655A. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 455B - History of China Since 1800**

Analysis and interpretation of Chinese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Prerequisite(s): Six credits of history.

Note(s): This course is crosslisted with HIST 655B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 455C - Topics in Modern China**

In-depth study of aspects of modern China. Each year a different theme, such as Reform, Rebellion, and Revolution or Twentieth-Century China. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits with consent of instructor. Note(s): This course is crosslisted with HIST 655C. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 456 - Topics in Ancient History**

Explores varied topics in the ancient Greco-Roman world from a historical perspective. Topics may include religious ideas and practices; class, status, and cultural identity; or the relation between literary production and culture. Develops skills of analysis, interpretation, and exposition of significant historical fields. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with HIST 656. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 457 - Ancient Greek Civilization**

History of Greece and Hellenic civilization from the end of prehistoric times until the Roman conquest. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 657. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 458 - Roman Civilization**

Analyzes all aspects of Roman history from earliest times to the late antique period, with central attention to the politics and society of the later Republic and how Rome became the monarchy of the Caesars. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 658. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 459 - The Middle Ages**

Examines the society and culture of medieval Europe from the breakdown of the Roman Empire to the beginnings of the Renaissance. Topics include the emergence of feudal and Church government, the Crusaders, technological development, medieval gender roles, art and architecture, social structure, and the impact of the Black Death. Prerequisite(s): Six credits of history. 3 credit(s)

#### **HIST 459A - Topics in Medieval History**

Examines selected topics in medieval history in depth and detail. Topics may include the Crusades; the family, marriage and sexuality; the Middle Ages in film and fact; and science, technology and magic. Prerequisite(s): Six credits of history. Notes: This course is crosslisted with HIST 659A. Credit at the 600-level requires additional work. Note(s): This course is crosslisted with HIST 660A. Credit at the 600-level requires additional work 3 credit(s)

#### **HIST 460A - The Renaissance**

Development of new forms of art, culture, religious expression, political thought, urban organization, economic practice, and family structure from the end of the Middle Ages to the beginnings of the modern era. Prerequisite(s): Six credits of history. 3 credit(s)

#### **HIST 460B - The Reformation**

Europe from the emergence of Protestantism to the outbreak of the Thirty Years War. Breakup of the medieval ideal of a united Christendom, mainstream and radical Protestantism, impact of religious warfare, changing attitudes toward high and popular culture. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 660B. Credit at the 600-level requires additional work. 3 credit(s)

#### **HIST 461 - Europe in the Eighteenth Century**

Advanced study of eighteenth-century European cultural, intellectual, social and political history. Includes Enlightenment ideas ("progress, the "pursuit of happiness" and the quest for "virtue"); constitutional and absolutist government; commercial capitalism; changes to the traditional social order; nationalism and patriotism; religious toleration; and the advent of print culture. Prerequisite(s): Six credit hours of history. Note(s): This course is crosslisted with HIST 661. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 461B - Early Modern Europe: 1550-1789**

Development of the economic, political, social, and cultural patterns of Europe during the Age of Reason and the Age of Enlightenment. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 661B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 462 - The French Revolution and Napoleon**

Study of France during the last stages of the old regime; the revolution; and the rise and fall of Napoleon Bonaparte. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 662. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 463 - Europe: 1815-1914**

Detailed study of the development of the economic, political, social, and cultural patterns of Europe from Waterloo to the outbreak of World War I. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 663. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 464 - Europe: 1914 - Present**

Detailed analysis of the First World War, the Versailles settlement, the Russian revolution, the emergence of Fascism and Nazism, the Second World War, the Cold War, European reconstruction, the Eastern European Revolutions, the development of consumer societies, European economic integration, the end of communism, and the wars of Yugoslav succession. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 664. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 466 - European Diplomatic History, 1815 - Present**

Examines politics and diplomacy in Europe from the Congress of Vienna to the present. Topics include the Spring of Nations in 1848, the unification of Germany in 1871, the outbreaks of World War I, World War II, and the Cold War. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 666. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 468 - History of Science**

Study of the major scientific and technological advances since medieval times and their impact on society. Presented in a non-technical manner. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 668. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 470 - History of Mexico**

Study of the development of Mexican civilization, examining the Maya and Aztec background and emphasizing the Spanish conquest, colonial institutions, the independence movement and the problems of nationhood, the Mexican Revolution of 1910, and contemporary issues. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 670. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 471 - Revolution and Reaction in Contemporary Latin America**

Study of major political movements, leaders, and trends in Latin America from the Cuban Revolution to the present day. Prerequisite(s): Six credits of history. Note(s): Same as PSC 407N. This course is crosslisted with HIST 671. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 472 - History of Brazil**

Development of Brazil from the beginning of Portuguese colonization to the present, with emphasis on colonial institutions, territorial expansion, slavery and race relations, political evolution, and recent social and economic problems. Prerequisite(s): Six credits of history. 3 credit(s)

**HIST 473 - History of the Andean Region**

Central and southern Andes from the Inca period to the present: the Inca Empire, the Spanish conquest, colonial society and institutions, the independence movements, and the republics of Peru, Bolivia, and Chile, with emphasis on reform and revolution in the twentieth century. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 673. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 474 - Latin American Ethnic Studies**

Cultural study of pre-Columbian and early colonial institutions in Mesoamerica and the Andes with emphasis on the information gathered from indigenous chronicles and early documents. Prerequisite(s): Six credits of history. 3 credit(s)

**HIST 475 - Modern Latin American Film**

Cinematic treatments of modern Latin American socio-historical issues. Topics include industrialization, dictatorship and repression, redemocratization, and minority rights. Analysis of the Cinema Novo (Cinema Nueva) and post-Cinema Novo genres. Emphasis on Brazilian, Argentine, and Cuban films of the 1970s and 1980s. Prerequisite(s): Junior or senior standing; or, completion of HIST 143 or HIST 144 and consent of instructor. Note(s): Same as FIS 475. 3 credit(s)

**HIST 476 - The Mexican Revolution**

Study of the origins, major events and personalities, and aftermath of the Mexican Revolution of 1910, tracing Mexico's political development to modern times. Prerequisite(s): PSC 101, six credits of history. Note(s): Same as PSC 407M. This course is crosslisted with HIST 676. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 478A - Islamic and Middle Eastern History to 1750**

An examination of the rise and development of Islamic civilization from its inception in the seventh century up into the early modern period. It presents the diversity of Islamic civilization as it evolved over time, as well as the historical contexts of both the Islamic heartland and its surrounding regions. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 678A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 478B - Islamic and Middle Eastern History Since 1750**

An examination of the Middle East from the 18th century to recent times. The predominant focus will be on how the indigenous leadership and peoples of the region grappled with the challenges posed by the advent of the modern world. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 678B. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 479 - History of the British Empire**

Explores the history of the British Empire from its beginnings to decolonization and analyzes the social, cultural, and intellectual foundations of imperial Britain. The emergence of Great Britain as an imperial power considered within the larger context of concerns about race, class, and gender. Prerequisite(s): Six credits of History. Note(s): This course is crosslisted with HIST 679. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 479A - West Africa and the Making of the Atlantic World**

Explores how West Africa contributed to the cultural and economic development of the Atlantic world and how European contact and interaction contributed to West Africa's development and underdevelopment. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 679A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 483A - Urban Destruction and Reconstruction**

Study of populations, cityscapes, and infrastructures in cities wounded by acts of warfare, terrorism, and natural disasters, as well as by social, environmental, and economic decline. Analyzes urban renewal and reconstruction efforts and counter-terrorism policies and their effect on the strategic, geopolitical role of cities. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 683A. Credit at the 600-level requires additional work. 3 credit(s)

**HIST 485 - Oral History**

Focuses on the techniques of oral history and integration of the material into a historical paper. Topics vary. Prerequisite(s): Six credits of history. 3 credit(s)

**HIST 486 - Study in History Abroad**

Part of UNLV's International Studies Program. Topics vary. Prerequisite(s): Approval of program Director. May be repeated to a maximum of twelve credits. Note(s): This course is crosslisted with HIST 687. Credit at the 600-level requires additional work. 1-3 credit(s)



### **HIST 487R - Topics in American Studies**

Interdisciplinary analysis of selected topics in American history, literature, art, science and material culture. Topics vary from semester to semester. Prerequisite(s): Six credits in History. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with HIST 687. Credit at the 600-level requires additional work. 3 credit(s)

### **HIST 489 - Comparative History**

Study of a historical problem by examining its development in different countries and epochs. Possible topics include slavery, industrialization, and ideology. Prerequisite(s): Six credits of history. Note(s): This course is crosslisted with HIST 689. Credit at the 600-level requires additional work. 3 credit(s)

### **HIST 491A - Women in the Ancient World**

Explores women's varied roles in the ancient Near East, Greece and Rome. Examination of women's participation in religion, politics and the family as well as representations of women in myth, art, philosophy, medicine, and literature. Prerequisite(s): Six credits of history. Note(s): Same as WMST 491A. 3 credit(s)

### **HIST 491B - Women in Medieval Culture and Society**

(Same as WMST 491B.) Explores medieval women's experiences as religious leaders, workers, queens and ladies of the manor, and as mothers, wives and daughters. Special attention will be paid to women's voices expressed in letters and autobiography, literature, historical records and art. Prerequisite(s): Six credits of history. Note(s): Same as WMST 491B. This course is crosslisted with HIST 691B. Credit at the 600-level requires additional work. 3 credit(s)

### **HIST 492A - Women in Early Modern Europe**

(Same as WMST 492A.) Explores the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women and work, women's participation in the creation of culture and religion, and the European witch-hunts. Prerequisite(s): Six credits of history. Note(s): Same as WMST 492A. This course is crosslisted with HIST 692A. Credit at the 600-level requires additional work. 3 credit(s)

### **HIST 492B - Women in Modern European History**

Analysis and interpretation of women's roles in the modern world. Topics include the emergence of feminism and the international women's movement; the impact of industrialization on work and the family; constructions of gender, sexuality and motherhood. Prerequisite(s): Six credits of history. Note(s): Same as WMST 492B. 3 credit(s)

### **HIST 495 - Topics in Gender and History**

Study of a selected topic concerning gender and history. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits. Note(s): Same as WMST 495. 3 credit(s)

### **HIST 496 - Philosophy of History**

(Same as PHIL 437.) Theory, epistemology, and methodology of historiography, dealing with such questions as the nature, aims, and methods of history; its status as a science; the legitimacy of the so-called speculative philosophy of history; and the structure of historical knowledge. Prerequisite(s): PHIL 101, PHIL 102, or PHIL 114, six credits of history. Note(s): Same as PHIL 437. This course is crosslisted with HIST 696. Credit at the 600-level requires additional work. 3 credit(s)

### **HIST 497 - Independent Study**

Supervised readings on special topics selected in consultation with a history instructor. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits. 1-3 credit(s)

### **HIST 498 - Advanced Historical Studies**

Study of the historical origins and aspects of selected contemporary issues. Prerequisite(s): Six credits of history. May be repeated to a maximum of eight credits. Note(s): This course is crosslisted with HIST 698. Credit at the 600-level requires additional work. 1-4 credit(s)

## **Interdisciplinary Studies**

### ***Purpose and Focus***

The College of Liberal Arts offers a number of interdisciplinary programs that enable students to take courses in several departments and colleges on campus. Students combine their course work in exciting and innovative ways beyond the existing Bachelor of Arts and Bachelor of Science degrees in order to meet their career goals and to reflect their personal interests. There are Interdisciplinary B.A. degree programs in the following fields: Afro-American Studies, Asian Studies, Latin American Studies, Multidisciplinary Studies, Social Science Studies and Gender and Sexuality Studies.

### ***Degree Objectives/Learning Outcomes***

**Afro-American Studies:** The Afro-American Studies Program is offered under the auspices of the Interdisciplinary Studies unit of the College of Liberal Arts. Students may major or minor in Afro-American Studies. The program in Afro-American Studies is designed to provide students with the critical tools required, and to expose them to the historical knowledge and current research necessary, for an informed understanding of the Afro-American experience today. The program is built around a core of courses that systematically document critical aspects of the Afro-American experience from its antecedents in antiquity to the prominent issues of the present day. Engaging both past and contemporary aspects of this experience provides students access to materials and events that have historically not been given adequate treatment, and allows students to contextualize current issues relating to Afro-Americans in an academically critical way. The program is also designed to effectively prepare students who desire to continue on to graduate work in Afro-American Studies.

**Asian Studies:** The Asian Studies program focuses on the distinctive cultural, political, linguistic, literary, artistic, and historical aspects of Asian and Asian-American life. Students are trained in diverse areas of Asian civilization, especially the traditions and contemporary societies of China, India, Japan, Sri Lanka, Pakistan, Bangladesh, Nepal, Thailand, the Philippines, and other Asian countries. The degree prepares students for careers in government and teaching, as well as in areas of international business, consulting, and media.

**Latin American Studies:** Latin American Studies is a multidisciplinary major that covers the important region of Mexico, Central and South America, and the Caribbean. Participating faculty specialize in political economy, border studies, anthropological approaches, and exile studies as well as Latin American history, literature, and film. Course work in the program offers students an opportunity to acquire a comprehensive knowledge of the history, politics, economics, culture, and literature of Latin American and the Caribbean. Graduates from the program receive theoretical and practical training to pursue careers in multinational companies that operate in Latin America. Latin American Studies majors are also well suited to work in the federal government, in various international organizations (such as the World Bank, the Inter-American Development Bank, and other organizations), or to teach in primary and secondary schools.

**Multidisciplinary Studies:** The degree program in Multidisciplinary Studies is designed for the student who has clear interests and objectives that overlap colleges and/or departments,



and whose objectives cannot reasonably be met through existing majors and minors. The program offers students the opportunity to focus and harness their energies by providing plans of study tailored to their individual interests through the incorporation of courses or sets of courses offered in departments and colleges across campus. As such, the program emphasizes flexibility and combines specialized knowledge from individual disciplines as a means of approaching and analyzing problems from divergent and multidisciplinary perspectives. Students participate in a capstone during their final semester, demonstrating the incorporation of their areas of study into a project, presentation, and paper.

**Social Science Studies:** Students who major in Social Science Studies will understand how various social science disciplines structure and advance knowledge, raise and answer analytical questions, and deal with competing theories within specific fields. Emphasis is placed on developing critical awareness of the different methodologies applied to questions about society, social interaction, and human subjectivity. Students work closely with their advisers to plan a program that satisfies the required competencies in a chosen area of focus and in the social science disciplines. Students participate in a capstone during their final semester, demonstrating the incorporation of their chosen disciplines into a project, presentation, and paper.

**Gender and Sexuality Studies:** Gender and Sexuality Studies is an interdisciplinary program that explores how gender intersects with race, ethnicity, class, sexuality, and nationality to shape both social institutions and everyday lived experiences. Our curriculum consists of a core set of courses and a variety of elective courses that can be selected from across the humanities and social sciences. The Program offers a major and a minor, and equips students to enter a range of careers in today's diverse and multicultural workplace. Recent course offerings include Gender and Popular Culture, Chicana Feminism, and Women, Science and Technology, among other up-to-date and critical approaches to understanding gender.

**For degrees in Classical Studies, see Department of World Languages and Cultures.**

## Accreditation

Northwest Commission on Colleges and Universities

## Undergraduate Major

Interdisciplinary Studies (120 credits)

## Degree Programs

Afro-American Studies  
Asian Studies  
Latin American Studies  
Multidisciplinary Studies  
Social Science Studies  
Gender and Sexuality Studies

## Advisement

Advising is provided by the Wilson Advising Center and by each Program Director of the Interdisciplinary Degree Programs (Afro-American Studies, Asian studies, Latin American Studies, Multidisciplinary Studies, Social Science Studies and Gender and Sexuality Studies).

## Afro-American Studies Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at [www.unlv.edu/interdisciplinary/](http://www.unlv.edu/interdisciplinary/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Identify major events in Afro-American history.
2. Relate major events in Afro-American history to British North-American and United States history generally.
3. Identify and analyze select current issues in contemporary Afro-American life and culture.
4. Identify general cultural or sub-cultural aspects of the Afro-American experience vis-à-vis the mainstream American experience.
5. Explain how the rapid rise of the United States as a world power in the 19th century was directly related to the forced labor of Africans and Afro-Americans.
6. List the major events of the Civil Rights Movement.
7. Relate the Black Power Movement to the Civil Rights Movement that preceded it, and to the current era.
8. Describe at least one mode of Afro-American literary or artistic achievement, including its major figures.
9. Recognize the major political and social figures of Afro-American history and culture.
10. Display an ability to produce acceptable, university-level written work

## University Graduation Requirements

- Please see Graduation Policies for complete information
- |   |                         |
|---|-------------------------|
| Afro-American Degree Requirements ..... | Total: 120 Credits      |
| General Education Requirements .....    | Subtotal: 36-37 Credits |
| First-Year Seminar .....                | Credits: 3              |
| English Composition .....               | Credits: 6              |
- ENG 101 - Composition I and
  - ENG 102 - Composition II
- |                                |                |
|--------------------------------|----------------|
| Second-Year Seminar .....      | Credits: 3     |
| Constitutions .....            | Credits: 4     |
| Mathematics .....              | Credits: 3     |
| Distribution Requirement ..... | Credits: 18-19 |
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 Credits
    - Two courses 3 credits each from two different humanities areas - 6 credits
    - One course in fine arts- 3 credits
  - Social Science
    - Automatically satisfied by Major requirements
  - Life and Physical Sciences and Analytical Thinking: 9-10 credits
    - Two courses from life and physical sciences category; at least one must have a lab.
    - Analytical Thinking
  - PHIL 102 - Critical Thinking and Reasoning
- Multicultural and International  
(see note 1)  
Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

#### Major Requirements -

BA in Afro-American Studies ..... Subtotal: 39 Credits  
(see notes 2-4)

Afro-American Studies Major Requirements..... Credits: 39

AAS Core ..... Credits: 15

- AAS 101 - Afro-American Survey I
- AAS 102 - Afro-American Survey II
- AAS 330 - From Civil Rights to Black Power and Beyond
- AAS 433 - Contemporary Issues in Afro-American Studies
- IDS 495A - Interdisciplinary Studies Capstone

AAS Literature (select two courses from this list)..... Credits: 6

- AAS 290 - Introduction to African-American Literature
- AAS 291 - Slave Narratives, Literature, and Imagery
- AAS 491 - Early African-American Literature
- AAS 492 - Modern African-American Literature

AAS Electives (Select six courses from the list)..... Credits: 18

- AAS 105 - Afro-American Music and Culture
- AAS 106 - Afro-American Masculinity
- AAS 166 - Survey of African-American Dance
- AAS 264 - African American Psychology
- AAS 286 - Contemporary Black Filmmakers
- AAS 287 - Afro-American Heroes in Film
- AAS 288 - Afro-Americans in Film
- AAS 289 - Film, Race, and Ethnicity
- AAS 301 - Ideologies of Intolerance
- AAS 331 - Selected Topics in Afro-American Film
- AAS 405R - Africa in World Politics
- AAS 407T - The Politics of Sub-Saharan Africa
- AAS 420 - Afro-American Spirituality
- AAS 432 - Afro-American Social History
- AAS 434 - Constructions of Racial Ambiguity
- AAS 435 - Malcolm X
- AAS 436 - Politics of Racial Ambiguity
- AAS 440 - Selected Topics in Afro-American Studies
- AAS 499 - Independent Research in Afro-American Studies
- ENG 499 - Independent Study
- HIST 497 - Independent Study
- HIST 498 - Advanced Historical Studies
- MUS 134 - Jazz Appreciation
- PSC 4011 - Ethnic and Minority Politics
- PSC 403Z - Special Topics in Public Policy
- PSC 480A - Independent Study and Research in Political Science
- SOC 471 - Race and Ethnic Relations in America
- WMST 113 - Gender, Race and Class

Related Area..... Credits: 18

As approved by the Director of the Afro-American Studies program, either a minor, or additional credits related to the student's academic or vocational interests.

Other Afro-American Studies Requirements..... Credits 18

Social Science..... Credits: 9

Fine Arts ..... Credits: 3

Foreign Language/Foreign Culture ..... Credits: 6

Electives..... Credits: 7-9

Total Credits: ..... 120

#### Notes

1. UNLV's multicultural requirement is met by Afro-American Studies majors through any of the following required courses: AAS 101, 102, 330, or 433 .
2. Not more than two of the following courses may count toward the major in Afro-American Studies: PSC 4011, SOC 471, or WMST 113.
3. Use of the following courses for major credit requires permission of the Director of the Afro-American Studies Program: ENG 499, HIST 497, HIST 498, PSC 403Z, or PSC 480A.
4. At least 18 credits of the required 42 upper-division credit hours (300-400 level) must be in the major.

#### Asian Studies Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at [www.unlv.edu/interdisciplinary/](http://www.unlv.edu/interdisciplinary/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

#### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

#### Learning Objectives

1. Acquire knowledge of the discipline of Asian Studies.
2. Demonstrate awareness of the wide range of Asian cultures
3. Recognize the historical and contemporary importance of Asia in world politics
4. Demonstrate knowledge of the philosophical traditions of one or more Asian cultures
5. Describe and analyze literary texts and artifacts of an Asian culture
6. Demonstrate the ability to recognize and understand the complex political and economic relationships within Asia and between Asia and other regions in an increasingly globalized world

#### University Graduation Requirements

- Please see Graduation Policies for complete information

The Asian Studies program focuses on the distinctive cultural, political, linguistic, literary, artistic, and historical aspects of Asian and Asian-American life. Students are trained in diverse areas of Asian civilization, especially the traditions and contemporary societies of China, India, Japan, Sri Lanka, Pakistan, Bangladesh, Nepal, Thailand, and Philippines, and other Asian countries. The degree prepares students for careers in government and teaching, as well as in areas of international business, consulting, and media.

Asian Studies Degree Requirements - Total: ..... 120 Credits

General Education Requirements - Subtotal..... 36-40 credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics..... Credits: 3

Distribution Requirements ..... Credits:18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits

- Two courses 3 credits each from two different humanities areas - 6 credits
- One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one with a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BA in Art - Asian Studies.....Subtotal: 51 Credits

Asian Studies Major Requirements - Total Credits: 51

Additional Major Requirements - Credits: 18

- Foreign Language/Foreign Culture..... Credits: 6
- Humanities..... Credits: 6
- Fine Arts ..... Credits: 6

Asian Studies Major Requirements..... Credits: 33

The following courses have been approved to fulfill the AIS course requirements for either a Bachelor of Arts in Asian Studies or a Minor in Asian Studies. Students must complete at least 21 credit hours in upper-division (300 or above) courses for the AIS major.

Students must complete the following:

- AIS 101 – Introduction to Asian Studies..... Credits: 3
- IDS 495A – Interdisciplinary Studies Capstone..... Credits: 3

Plus any combination from the following courses:

- AIS 499 - Independent Study
- ANTH 306 - Contemporary Chinese Society
- ANTH 411 - Buddhism and Culture
- ART 480\* - Art of China
- ART 481\* - Art of Japan
- ART 495 - Special Topics in Art History
- CHI 105 - Chinese Business Culture
- CHI 113 - Elementary Chinese I
- CHI 114 - Elementary Chinese II
- CHI 213 - Intermediate Chinese I
- CHI 214 - Intermediate Chinese II
- CHI 301 - Third-Year Chinese: Conversation and Composition
- CHI 302 - Third-Year Chinese: Grammar and Composition
- CHI 323 - Chinese Popular Culture
- CHI 331 - Chinese Literature in Translation
- CHI 322 - Modern Chinese Literature in Translation
- CHI 350 - Topics in Chinese Literature
- CHI 443 - Modern Chinese Culture Through Film
- ENG 477A - Film and Literature
- ENG 485A - Asian Literature
- JPN 113 - Elementary Japanese I
- JPN 114 - Elementary Japanese II
- JPN 213 - Intermediate Japanese I
- JPN 214 - Intermediate Japanese II
- JPN 301 - Third-Year Japanese I
- JPN 302 - Third-Year Japanese II

- JPN 401 - Advanced Japanese Composition I
- JPN 416 - Japanese for Business I
- JPN 417 - Japanese for Business II
- JPN 425 - Topics in Japanese Culture
- PHIL 117 - Indian Philosophy of Mind and Mental Health
- PHIL 124 - Philosophical Traditions of Asia
- PHIL 225 - Introduction to Indian Philosophy
- PHIL 452 - Aesthetics
- PHIL 467 - Indian Philosophy
- PHIL 468 - Chinese and Japanese Philosophy
- PHIL 469 - Gandhian Welfare Philosophy and Culture
- PHIL 352 - Special Topics
- PHIL 472 - Selected Topics in Religion
- PSC 405L - East Asia in World Politics
- PSC 405M - The Pacific Rim and World Politics
- PSC 407B - Political Systems of East Asia
- PSC 407O - Islamic Politics
- SOC 410\* - Sociology of Aging
- SOC 466 - Sociology of Medicine

\*First year language credits can either be used to satisfy the Asian Studies requirements OR the College of Liberal Arts language requirement. They cannot fulfill both requirements.

Electives..... Credits: 29-33

Total Credits: ..... 120

## Notes

1. Courses taken in any one Asian language with a grade of C or better may be applied toward the needed electives with a total of eight to ten credits for the major and three to six credits for the minor.
2. ART 495 may be taken only when the topic is Asian Art. Art Department pre-requisites may be waived for Asian Studies majors for upper division Asian Art courses by permission of the instructor.
3. Students are required to follow standard university policies requiring pre-requisite fulfillment unless prior arrangements are made with advisors and instructors.

## Committee:

See the Asian Studies website at [liberalarts.unlv.edu/interdisciplinary/ASIANSTUDIES2.html](http://liberalarts.unlv.edu/interdisciplinary/ASIANSTUDIES2.html) for a complete listing of Asian Studies Faculty and Asian Studies program committee members.

## Gender and Sexuality Studies Major (BA)

Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at [www.unlv.edu/interdisciplinary/womens-studies](http://www.unlv.edu/interdisciplinary/womens-studies) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. The sociology graduate will have knowledge of:
  - The key concepts, debates, and trends in sociology
  - The major sociological paradigms and theories
  - the variety of methods used in sociological research
2. Sociology students will be able to:
  - Show evidence of the development of a sociological imagination

by applying sociological knowledge in their own projects—whether intellectual, personal, and/or political.

- Exhibit confidence in expressing ideas orally and in writing.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Women's Studies Degree Requirements..... Total: 120 Credits  
(See note 1 below)

General Education Requirements..... Subtotal: 36-38 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
- Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

Women's Studies..... Subtotal: 55 Credits  
(see note 2-4 below)

Fine Arts ..... Credits: 3

Foreign Language/Foreign Culture ..... Credits: 6

Social Science..... Credits: 9

Core Major Requirements ..... Credits: 16

- WMST 101 - Introduction to Women's Studies
- WMST 113 - Gender, Race and Class
- WMST 301 - Feminist Theory
- WMST 302 - Feminist Research Methodology
- WMST 497 - Feminist Praxis

WMST electives ..... Credits: 21

Electives..... Credits: 27-29

Total Credits: ..... 120

### Notes

1. All Women's Studies course work must be completed with a grade of C or higher.
2. Students may satisfy up to six credits of the 21 required credits of WMST electives through study abroad. Only courses approved in advance by the chair of Women's Studies or the undergraduate advisor may be used in fulfillment of requirements for the Women's Studies major or minor.

3. Students should consult advisers to plan their schedules early in their UNLV careers because most Women's Studies courses are offered only once annually. WMST 101 and WMST 113 are both pre-requisites for WMST 301 and 302 . WMST 301 and 302 are both pre-requisites for WMST 497. If possible, we recommend you plan on taking WMST 301 before taking WMST 302 . We also recommend taking WMST 497 immediately after WMST 302: WMST 302 in the Fall of your senior year, and WMST 497 in the Spring of your senior year.

4. Recommended sequence for core major and minor requirements: WMST 101, WMST 113, WMST 301, WMST 302, WMST 497

### Latin American Studies Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, Latin American Studies web page at [www.unlv.edu/interdisciplinary/latin-american-studies](http://www.unlv.edu/interdisciplinary/latin-american-studies) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### Learning Outcomes

1. A multidisciplinary understanding of the history, politics, economics, and culture of Latin America.
2. Knowledge of the literature and creative works of the region, from the pre-Colombian period to the present.
3. A capacity to summarize and evaluate critically theories and concepts used in the analysis of the history, politics, and economic development of Latin America.
4. Writing and research skills, including an ability to develop a research question, review the relevant research literature, collect information and data from a variety of sources, and support an argument with evidence and data.
5. Proficiency in Spanish (reading, writing and oral proficiency), and knowledge of the regional varieties of Spanish.
6. Awareness of cultural diversity in Latin America, the U.S., and other parts of the world.

### University Graduation Requirements

Please see Graduation Policies for complete information

Latin American Studies Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement



- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

#### Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>.

#### Major Requirements -

BA in Latin American Studies ..... Subtotal: 54 Credits

Social Science ..... Credits: 9

Fine Arts ..... Credits: 3

Foreign Language/Foreign Culture ..... Credits: 6

(see note 2 below)

Latin American Studies Major Requirements ..... Credits: 36

Must include:

- LAS 101 - Introduction to Latin American Studies
- IDS 495A - Interdisciplinary Studies Capstone

or

- IDS 495B - Independent Study: Capstone II

(IDS 495B can only be completed as an internship during the summer)

Select 30 credits from the following, with no more than twelve credits from any single department:

#### Anthropology:

- ANTH 434 - Ethnohistory
- ANTH 436 - History of Anthropology

#### Architecture:

- AAE 457 - Architecture in Las Americas

#### Art:

- ART 479 - Artistic Traditions of the Southwest

#### Department Of World Languages and Cultures (Spanish):

- SPAN 227 - Spanish for Heritage Speakers II
- SPAN 301 - Third-Year Spanish: Conversation and Composition
- SPAN 302 - Third-Year Spanish: Grammar and Composition
- SPAN 366 - Business Spanish II
- SPAN 368 - Spanish for the Tourism Industry
- SPAN 369 - Spanish for the Legal Profession
- SPAN 370 - Spanish for the Medical Profession
- SPAN 312 - Spanish Phonetics and Phonology

#### History:

- HIST 227 - Introduction to Latin American History and Culture I
- HIST 228 - Introduction to Latin American History and Culture II
- HIST 470 - History of Mexico
- HIST 471 - Revolution and Reaction in Contemporary Latin America
- HIST 472 - History of Brazil
- HIST 473 - History of the Andean Region
- HIST 474 - Latin American Ethnic Studies
- HIST 475 - Modern Latin American Film
- HIST 476 - The Mexican Revolution

#### Latin American Studies:

- LAS 499 - Latin American Studies: Independent Study

#### Political Science:

- PSC 405N - Regional and International Relations of Latin America and the Caribbean
- PSC 407E - Politics in Latin America

- PSC 407M - The Mexican Revolution
- PSC 407N - Revolution and Reaction in Contemporary Latin America

Electives ..... Credits: 25-27

Total Credits: ..... 120

#### Notes

1. A semester or year at a Latin American university or extensive field work in a Latin American country is strongly recommended.
2. In addition to the foreign language requirements of the College of Liberal Arts, two years of Spanish language courses or the equivalent knowledge established by examination are required.

#### Committee:

For information concerning the Latin American Studies Committee and its members go to [www.unlv.edu/interdisciplinary/latin-american-studies](http://www.unlv.edu/interdisciplinary/latin-american-studies)

### Multidisciplinary Studies Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, Multidisciplinary Studies web page at [www.unlv.edu/interdisciplinary/multidisciplinary-studies](http://www.unlv.edu/interdisciplinary/multidisciplinary-studies) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

#### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

#### Learning Outcomes

1. Design and complete an individualized and interdisciplinary course of study not currently offered at UNLV.
2. Identify connections between academic disciplines and engage in interdisciplinary problem-solving.
3. Articulate and apply interdisciplinary theories, research methods, and critical perspectives incorporating at least two academic disciplines.
4. Communicate ideas in written and oral form.
5. Demonstrate competency in relevant communication technologies.
6. Build an intellectual foundation to support continuous learning.

#### University Graduation Requirements

- Please see Graduation Policies for complete information

Multidisciplinary Degree Requirements ..... Total: 120 Credits  
(see notes 1-2 below)

General Education Requirements ..... Subtotal: 36-40 Credits  
(see note 3 below)

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

MATH 120 or above

Distribution Requirement ..... Credits 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits

- Two courses 3 credits each from two different humanities areas - 6 credits
- One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

Major Requirements -

BA in Multidisciplinary Studies ..... Subtotal:  
(see notes 4-5 below)

Social Sciences ..... Credits: 9

Fine Arts ..... Credits: 6

Foreign Languages/Foreign Culture ..... Credits: 6

Multidisciplinary Studies Major Requirements ..... Credits: 54-57

Core Requirements: ..... 12 credits  
(Courses must be taken in sequence)

- IDS 201 - Introduction to Interdisciplinary Studies

and

- IDS 240 - Interdisciplinary Research Methods

and

- IDS 494 - Interdisciplinary Inquiry

and

- IDS 495A - Interdisciplinary Studies Capstone

or

- IDS 495B - Independent Study: Capstone II

IDS 495B (can only be completed as an internship during the summer)

Multidisciplinary Studies Concentration Requirements:

Option A: 42 credits

Option B: 45 credits

Electives - Option A: ..... Credits: 8-12  
(see note 6 below)

Electives - Option B: ..... Credits: 5-9  
(see note 7 below)

Total Credits: ..... 120

## Notes

1. A minimum of 42 upper-division hours are required for the completion of the degree.
2. In order to successfully complete their degree, students must obtain a C or better in all IDS courses.
3. No courses counted towards the General Education core can be applied to the areas of study, except for the multicultural or international requirement.
4. All courses in the areas of study must be taken prior to IDS 495. Students can take summer courses and still walk in the May graduation as long as they do not take any IDS courses or any courses to be used in the areas of study. Students who wish to participate in the May graduation are limited to twelve summer credits.

5. A student can use a maximum of three credits of private lessons toward an area of study. A student may apply up to a maximum of four physical activity credits combined (PEX) as electives for graduation.
6. Students who choose Option A must complete two areas of study with a minimum of 21 credits in each. A minimum of 18 credits in each area of study must be selected from upper-division courses.
7. Students who choose Option B must complete three areas of study with a minimum of 15 credits in each. A minimum of 12 credits in each area of study must be selected from upper-division courses.

## Social Science Studies Major - Bachelor of Arts (BA)

Please see the UNLV Social Science Studies department web page at <http://www.unlv.edu/interdisciplinary/social-science-studies> for more information about department programs, faculty, and facilities.

Please see advising information at the UNLV Wilson Advising Center at [liberalarts.unlv.edu/WAC/](http://liberalarts.unlv.edu/WAC/)

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Understand the value of interdisciplinary inquiry
2. Identify the theories, methods, and critical perspectives of at least two academic disciplines in the social sciences.
3. Apply the theories, methods, and critical perspectives of at least two academic disciplines in the social sciences.
4. Synthesize the theories, methods, and critical perspectives of at least two disciplines in the social sciences into a developed plan of research and analysis.
5. Apply a synthesized plan of research to a single problem or set of problems concerning contemporary society.
6. Communicate ideas clearly in written and oral form.
7. Build an intellectual foundation to support continuous learning.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Social Science Studies Degree Requirements ..... Total: 120 Credits  
(see note 1)

General Education Requirements ..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Sciences:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses for Life and Physical Sciences category; at least one must be a lab.

## Multicultural and International

(see note 2)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

### Major Requirements -

BA in Social Science Studies Major ..... Subtotal: 72 Credits  
(see note 3)

Social Science ..... Credits: 9

Fine Arts ..... Credits: 3

Foreign Language/Foreign Culture ..... Credits: 6

Social Science Studies Major Requirements ..... Credits: 54

Core Requirements ..... Credits 12

(Courses must be taken in sequence)

• IDS 201 - Introduction to Interdisciplinary Studies  
and

Research Methods (Choose one of the following)

- HIST 251 - Introduction to Historical Methods
- IDS 240 - Interdisciplinary Research Methods
- PSC 302 - Research Methods in Political Science
- PSY 240 - Research Methods
- SOC 241 - Introduction to Research Methods
- WMST 302 - Feminist Research Methodology

and

• IDS 494 - Interdisciplinary Inquiry

and

• IDS 495A - Interdisciplinary Studies Capstone

or

• IDS 495B - Independent Study: Capstone II (IDS 495B can only be completed as an internship during the summer) (see note 4)

Social Science Studies Concentration Requirements: ..... 42 credits  
(see notes 5, 6 and 7 below)

Students choose 42 credits (33 must be Upper Division) from all available courses in the following Social Science departments: Anthropology, History, Political Science, Psychology, Sociology, Gender and Sexuality Studies.

Electives ..... Credits: 10-12  
(see note 8)

Total Credits: ..... 120

### Notes

1. All courses in the Social Science major must be taken prior to IDS 495. Students can take summer courses and still walk in the May graduation as long as they do not take any IDS courses or any courses in the major. Students who wish to participate in the May graduation are limited to twelve summer credits.
2. No courses counted towards the General Education core can be applied to the areas of study, except for the multicultural or international requirement.
3. In order to successfully complete their degree, students must obtain a C or better in all IDS courses.
4. Unless by special permission a maximum of six credits of Independent Study.
5. A minimum of 42 upper-division hours are required for the completion of the degree.

6. Students may complete a maximum of 21 credits from any one department.
7. Students must complete a minimum of 6 credits in at least three different Social Science departments.
8. A student may apply up to a maximum of four physical activity credits combined (PEX) as electives for graduation.

## Afro-American Studies Minor

Minimum GPA: 2.50

Courses Include ..... Total Credits: 24

- AAS 101 - Afro-American Survey I
- AAS 102 - Afro-American Survey II
- AAS 330 - From Civil Rights to Black Power and Beyond
- AAS 433 - Contemporary Issues in Afro-American Studies

and 12 credits from the following elective list:

- AAS 105 - Afro-American Music and Culture
- AAS 106 - Afro-American Masculinity
- AAS 166 - Survey of African-American Dance
- AAS 264 - African American Psychology
- AAS 286 - Contemporary Black Filmmakers
- AAS 287 - Afro-American Heroes in Film
- AAS 288 - Afro-Americans in Film
- AAS 289 - Film, Race, and Ethnicity
- AAS 290 - Introduction to African-American Literature
- AAS 291 - Slave Narratives, Literature, and Imagery
- AAS 301 - Ideologies of Intolerance
- AAS 331 - Selected Topics in Afro-American Film
- AAS 420 - Afro-American Spirituality
- AAS 432 - Afro-American Social History
- AAS 434 - Constructions of Racial Ambiguity
- AAS 435 - Malcolm X
- AAS 436 - Politics of Racial Ambiguity
- AAS 440 - Selected Topics in Afro-American Studies
- AAS 491 - Early African-American Literature
- AAS 492 - Modern African-American Literature
- AAS 499 - Independent Research in Afro-American Studies
- ENG 499 - Independent Study
- HIST 497 - Independent Study
- HIST 498 - Advanced Historical Studies
- MUS 134 - Jazz Appreciation
- PSC 401I - Ethnic and Minority Politics
- PSC 403Z - Special Topics in Public Policy
- PSC 480A - Independent Study and Research in Political Science
- SOC 471 - Race and Ethnic Relations in America

Not more than one of the following courses may count toward the minor in Afro-American Studies:

- PSC 401I - Ethnic and Minority Politics
- SOC 471 - Race and Ethnic Relations in America
- WMST 113 - Gender, Race and Class

Use of the following courses for minor credit requires permission of the Director of the Afro-American Studies Program:

- ENG 499 - Independent Study
- HIST 497 - Independent Study
- HIST 498 - Advanced Historical Studies
- PSC 403Z - Special Topics in Public Policy
- PSC 480A - Independent Study and Research in Political Science

## American Indian and Indigenous Studies

### Minor

C or higher in any course counted for the minor.

Courses Include ..... Total Credits: 21

- AIIS 100 - Introduction to American Indian and Indigenous Studies
- HIST 438B - American Indian History Since 1851
- ENG 494A - Native-American Literature
- IDS 495A - Interdisciplinary Studies Capstone

Distribution Requirement (9 credit hours total - 3 credit hours from each of the following categories):

History and Sovereignty (3 credit hours from below)

- HIST 208 - World History I
- HIST 227 - Introduction to Latin American History and Culture I
- HIST 438A - American Indian History to 1851
- HIST 438C - Topics in American Indian History
- HIST 440 - Regions in American Indian History
- HIST 470 - History of Mexico
- HIST 474 - Latin American Ethnic Studies

Culture and Archaeology (3 credit hours from below)

- ANTH 301 - Peoples and Cultures of Native North America
- ANTH 305R - Arctic Anthropology
- ANTH 400C - Native Americans of the Southwest
- ANTH 434 - Ethnohistory
- ANTH 440A - Archaeology of North America
- ANTH 440B - Archaeology of the Great Basin
- ANTH 440C - Archaeology of the Southwest

Comparative (3 credit hours from below)

- ART 479 - Artistic Traditions of the Southwest
- PBH 200 - Multicultural Health
- PSC 401I - Ethnic and Minority Politics
- SOC 205 - Ethnic Groups in Contemporary Societies
- SOC 471 - Race and Ethnic Relations in America
- WMST 432A - History of American Women to 1870
- WMST 477 - Critical Race Feminism

## Asian Studies Minor

Courses Include ..... Total Credits: 18

- AIS 101 - Introduction to Asian Studies

and 15 credit hours of approved course work, with at least 12 of these at the upper-division level.

## Gender and Sexuality Studies Minor

Courses Include ..... Total Credits: 22

- WMST 101 - Introduction to Women's Studies
- WMST 113 - Gender, Race and Class
- WMST 301 - Feminist Theory
- WMST 302 - Feminist Research Methodology
- WMST 497 - Feminist Praxis

and six credits from approved list of WMST electives.

## Gerontology Minor

Provides a multidisciplinary foundation in aging and gerontology. The minor thus serves students from a variety of disciplines who are interested in working with the aging population. Additionally, students will have the opportunity to gain practical experiences through an internship, field-work or a practicum, thus enhancing their potential employability in a broad spectrum of aging-related organizations.

## Admission to the Minor

Must have C or higher in any course counted for the minor.

### Required Minor Courses:

Required Core Courses ..... Total Credits: 6

Select one:

- SW 104 - Perspectives in Aging
- PBH 165 - Personal Health Across the Lifespan

select one:

- ANTH 465 - Human Growth and Aging
- KIN 461 - Physical Activity in Aging
- KIN 462 - Adult Development in Aging
- NURS 486 - Gerontology
- PSY 442 - Psychology of Aging
- SOC 410\* - Sociology of Aging

Required Culminating Experience (Practicum, Internship, Research)..... Total Credits: 3

Must be taken in the student's Senior year.

Select one:

- HCA 493 - Health Care Administration Practicum
- IDS 495A - Interdisciplinary Studies Capstone
- NURS 401 - Nursing Care of Older Adults
- SOC 390 - Internship in Sociology

Required Minor Electives

Electives (a total of 9 credits, 6 of which must be at the 300-400 level)

Select any three (3) of the following courses:

\*May only be used as an elective if the class is not satisfying a Core Course Requirement./\*\*Online class

- ANTH 462 - Human Osteology
- \* ANTH 465 - \*\*Human Growth and Aging
- CED 310 - Relationships Across the Lifespan
- CED 408 - Counseling the Older Adult
- HCA 480 - Organization and Management of Long-Term Care Services
- \* HED 165 - \*\*Personal Health Across Lifespan
- KIN 316 - Motor Development Across the Lifespan
- KIN 461 - Physical Activity in Aging
- \* KIN 462 - Adult Development in Aging
- NURS 299 - Nutrition and Development Across the Lifespan
- NURS 401 - Nursing Care of Older Adults
- \* NURS 486 - Gerontology
- PSY 496 - Advanced Independent Study
- \* PSY 442 - \*\*Psychology of Aging
- SOC 276 - Aging in Modern American Society
- \* SOC 410 - \*\*Sociology of Aging
- SOC 484 - Sociology of Death and Dying
- \* SW 104 - \*\*Perspectives in Aging
- SW 461 - Seminar: Contemporary Issues in Social Welfare
- SW 499 - Independent Study

Minor must be completed by date of graduation

Total Credits: ..... 18

## Latin American Studies Minor

Courses Include ..... Total Credits: 18

- LAS 101 - Introduction to Latin American Studies
- and 15 additional credits from approved courses. No more than six credit hours from any single department: Anthropology, Architecture, Foreign Languages, History, Latin American Studies, and Political Science. Two years of Spanish or Portuguese language courses or



the equivalent knowledge established by examination are required. A semester or year at a Latin American university or extensive field work in a Latin American country is strongly recommended.

## Latina/o Studies Minor

Courses include ..... Total Credits: 21  
The Latina/o Studies minor focuses on the experiences of Latina/os from an interdisciplinary perspective including English, Foreign Languages, History, Political Science, Sociology and Gender and Sexuality Studies. This minor will provide an academic and scholarly foundation for students to study and interpret the needs and social/cultural, political, educational, and historical conditions of Latina/os in the United States. It will help prepare students to work in settings that require understanding, serving, or interacting with this diverse population.

- LAS 100 - Introduction to Latina/o Studies

Spanish language course

- SPAN 214 - Intermediate Spanish II

or

- SPAN 227 - Spanish for Heritage Speakers II

Distribution requirement..... Total Credits: 15

- SPAN 341 - Introduction to Spanish Literature I
- SPAN 342 - Introduction to Spanish Literature II
- SPAN 343 - Introduction to Spanish American Literature I
- SPAN 344 - Introduction to Spanish American Literature II
- SPAN 350 - Topics in Hispanic Literature
- ITAL 322 - Italian Popular Culture
- ITAL 440 - Topics in Italian Literature
- ITAL 449 - Italian Culture Through Films
- ENG 292 - Introduction to Chicano Literature
- ENG 496A - Themes in Modern Chicano Literature
- HIST 444 - Latinos in the American West
- HIST 470 - History of Mexico
- HIST 473 - History of the Andean Region
- HIST 475 - Modern Latin American Film
- HIST 476 - The Mexican Revolution
- COM 330 - Selected Topics in Communication Studies
- WMST 473 - Chicana Feminism and Experience
- WMST 477 - Critical Race Feminism
- SOC 471 - Race and Ethnic Relations in America
- SOC 472\* - Latina/Latinos in America
- PSC 401I - Ethnic and Minority Politics
- PSC 407E - Politics in Latin America

## Internship Option

No more than two courses can be taken from one discipline

## Gerontology Certificate: Theatre

Members of the Interdisciplinary Program in Gerontology may select an area of concentration in Senior Adult Theatre by combining an approved curriculum from both programs.

## Interdisciplinary Studies

### AAS 101 - Afro-American Survey I

Interdisciplinary study of Afro-American history, beginning in Africa and continuing to the Civil War. Relates material to the Afro-American experience today. 3 credit(s)

### AAS 102 - Afro-American Survey II

Interdisciplinary study of Afro-American history, beginning with Reconstruction and continuing to 1965. Relates material to the Afro-American experience today. 3 credit(s)

### AAS 105 - Afro-American Music and Culture

Introduction to Afro-American music and its relationship to politics and society. Genre of music to be determined by instructor. 3 credit(s)

### AAS 106 - Afro-American Masculinity

Examines the historical, psychological, religious, sexual, health, legislative and sociopolitical influences that shape the gender identity of Afro-American males along the path to manhood. 3 credit(s)

### AAS 166 - Survey of African-American Dance

Survey of the role of the African American in the development of dance in America. Special focus placed on the artists, their philosophies and contributions in the areas of ballet, jazz, modern, and tap. Note(s): Same as DAN 166. 3 credit(s)

### AAS 264 - African American Psychology

(Same as PSY 264) Examines current psychological research and literature on the cultural, societal, historical, and political influences on the psychological well-being and characteristics of African Americans. Contextual issues include world views, values, beliefs, minority status, slavery, and oppression. Prerequisite(s): ENG 101 Note(s): Same as PSY 264. 3 credit(s)

### AAS 286 - Contemporary Black Filmmakers

Examination of contemporary black filmmakers with special emphasis on the determinants and social implications of their portrayals of Afro-American life. 3 credit(s)

### AAS 287 - Afro-American Heroes in Film

Examination of the diverse and changing filmic portrayals of African Americans as individuals of heroic struggle and sacrifice. Figures to be examined will vary from the historical such as Malcolm X and Tina Turner, to the fictional such as Easy Rawlins and Shaft. 3 credit(s)

### AAS 288 - Afro-Americans in Film

Examination of the historical portrayal of African Americans in film with special emphasis on the determinants and social implications of those portrayals. 3 credit(s)

### AAS 289 - Film, Race, and Ethnicity

Cross-cultural examination of how different racial and ethnic groups have contributed to world cinema. Explores stereotypes, race relations, and the positive/negative effects they have on filmmaking and viewing. 3 credit(s)

### AAS 290 - Introduction to African-American Literature

Introduction to the poetry, fiction, drama, and nonfiction of African-Americans. Note(s): Same as ENG 290. 3 credit(s)

### AAS 291 - Slave Narratives, Literature, and Imagery

Interdisciplinary examination of American slavery through the narrative form, including autobiographical, literary, and cinematic sources. Includes slave narratives and novels, as well as films. Focuses on the ways American slavery interpreted through these and other popular forms. Note(s): Same as ENG 291. 3 credit(s)

### AAS 301 - Ideologies of Intolerance

In-depth examination of racial intolerance in the United States. Through reading past and contemporary racist literature, exploring scholarly theories concerning racial supremacy, and viewing feature films and documentaries on racial hatred, students acquire a comprehensive working knowledge of racist ideologies in historical and contemporary contexts. Prerequisite(s): AAS 101, or AAS 102, or ANTH 101. 3 credit(s)

### AAS 330 - From Civil Rights to Black Power and Beyond

Interdisciplinary study of recent Afro-American history beginning with the end of the civil rights era and continuing to the present day. Includes transition from integration and civil rights to more separatist agendas, black power revolution, and present state of Afro-Americans. Prerequisite(s): Sophomore standing. 3 credit(s)

**AAS 331 - Selected Topics in Afro-American Film**

Examinations of various aspects of Afro-American film. Topic to be determined by instructor. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. May be repeated to a maximum of six credits. 3 credit(s)

**AAS 405R - Africa in World Politics**

Examines Africa's place in world politics. Relationships between African countries and international organizations and countries of other world regions as well as relationships among African countries. Explores changing nature of Africa's state system and challenges confronting this system. Prerequisite(s): PSC 231. Note(s): Same as PSC 405R. 3 credit(s)

**AAS 407T - The Politics of Sub-Saharan Africa**

Explores the nature of political development in the states of sub-Saharan Africa. Examines historical, economic and social forces that have shaped political change and conflict in Africa. Special attention to democratization process in Africa. Prerequisite(s): PSC 211. Note(s): Same as PSC 407T. 3 credit(s)

**AAS 420 - Afro-American Spirituality**

Introduction to the study of African American religious and spiritual traditions, exploring the historical, cultural, and psychological realities, which have shaped the distinctive African-American religious traditions. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. 3 credit(s)

**AAS 421 - Afro-American Gender**

Students will explore the various ways that Afro-American gender has been and can be performed, articulated, and researched, via interdisciplinary analyses including humanities, social sciences, physical/natural sciences, and arts approaches. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. 3 credit(s)

**AAS 432 - Afro-American Social History**

Topical approach to Black history that seeks to illuminate grand themes such as DuBois' notion of "double-consciousness," the dilemma of being both Black and American. Explores in depth such topics as religion, the family, slavery, urban life, education, labor, culture, and politics. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. Note(s): Same as HIST 433. 3 credit(s)

**AAS 433 - Contemporary Issues in Afro-American Studies**

Examination of current issues in Afro-American Studies, focusing on recent scholarship and events. Topics may include, but are not limited to, affirmative action, Afrocentricity, mainstream consumption of Afro-American culture, relation of Afro-Americans to Africa, and problem of continued Afro-American success in the fields of sports and entertainment. Note(s): This course is crosslisted with AAS 633. Credit at the 600-level requires additional work. 3 credit(s)

**AAS 434 - Constructions of Racial Ambiguity**

Interdisciplinary study of miscegenation, mulattos, and passing in the United States. Focuses on the Afro-American context, using historical, literary, and cinematic sources in order to grapple with and gain an understanding of the complexities of American race and mixed-race, both past and present. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. Note(s): This course is crosslisted with AAS 634. Credit at the 600-level requires additional work. 3 credit(s)

**AAS 435 - Malcolm X**

Intensive study of the life and work of Malcolm X. Delves below the surface of today's commercialization and iconography of Malcolm X to arrive at a better understanding of the man, his ideas, and his times. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. Note(s): This course is crosslisted with AAS 635. Credit at the 600-level requires additional work. 3 credit(s)

**AAS 436 - Politics of Racial Ambiguity**

Interdisciplinary investigation of contemporary American black/white multiracial identities, including analyses and assessments of the multiracial identity movement in the United States. Prerequisite(s): AAS 101 or AAS 102 or ANTH 101. Note(s): This course is crosslisted with AAS 636. Credit at the 600-level requires additional work. 3 credit(s)

**AAS 440 - Selected Topics in Afro-American Studies**

Topic to be selected by instructor. Focuses on student needs. Prerequisite(s): AAS 101, AAS 102, or AAS 330. 3 credit(s)

**AAS 491 - Early African-American Literature**

Study of the early African-American literature, with emphasis on historical development of the African-American tradition in creative and critical writing. Prerequisite(s): ENG 102. Note(s): Same as ENG 495A. 3 credit(s)

**AAS 492 - Modern African-American Literature**

Study of recent and contemporary works of African-American literature. Prerequisite(s): ENG 102. Notes Same as ENG 495B. 3 credit(s)

**AAS 499 - Independent Research in Afro-American Studies**

Research or reading to be carried out under the supervision of the instructor. Designed to give the student the opportunity to examine in-depth topics relating to Afro-American Studies. Prerequisite(s): AAS 433. May be repeated to a maximum of six credits. 3 credit(s)

**AIS 100 - Introduction to American Indian and Indigenous Studies**

Explains the development of the academic discipline of American Indian and Indigenous Studies. Explores how its interdisciplinary composition facilitates the exploration of Native histories, cultures and contemporary concerns. Promotes new knowledge about American Indian people and sovereignty. Note(s): Fulfills the Multicultural Course Requirement. 3 credit(s)

**AIS 101 - Introduction to Asian Studies**

Introduction to the cultures of Asia and the discipline of Asian Studies for the beginning student. 3 credit(s)

**AIS 301 - Selected Topics in Asian Studies**

Examination of selected topics in Asian Studies. Prerequisite(s): AIS 101. May be repeated to a maximum of six credits. 3 credit(s)

**AIS 451 - Explorations in South Asian Religions**

Introduces four major religions of South Asia: Hinduism, Buddhism, Jainism, and Sikhism. The origins, developments, philosophy, beliefs, and practices of these religions are explored. Adaptations made by the people under the impact of modern influences are discussed. Prerequisite(s): Senior standing and AIS 101. 3 credit(s)

**AIS 499 - Independent Study**

Program of independent reading and research, to be selected in consultation with an instructor before registration, and with the approval of the Asian Studies Program Chair. 3 credit(s)

**GWK 400 - Senior Seminar in Great Works**

Seniors attempting to complete the Great Works Academic Certificate program discuss one or more great works in a common reading list and have the opportunity in those discussions to synthesize the material in that list with what they have studied in their other GWAC courses. Prerequisite(s): Senior standing and approval of GWAC Committee. May be repeated to a maximum of two credits. 1 credit(s)

**IDS 201 - Introduction to Interdisciplinary Studies**

Introduces concepts and methods of interdisciplinary study and provides students with the necessary tools to begin integrating their areas of study. Provides students with the opportunity to develop their career exploration skills. Students begin work on their portfolios by focusing on and developing concepts related to each area of study. 3 credit(s)

**IDS 240 - Interdisciplinary Research Methods**

Prepares students to conduct interdisciplinary research by examining the practices, protocols and theories of research used in social and natural sciences and the humanities, including quantitative and qualitative methods. Prerequisite(s): IDS 201. 3 credit(s)

**IDS 299 - Rebel Internship Program: General Internship**

The purpose of this course is to prepare students for the world of work by providing a structured internship experience that reinforces classroom concepts through hands-on application. This course takes a reflective approach to career development by facilitating students' understanding and competence of a particular career path. May be repeated to a maximum of six credits. Note(s): S/F grading only. 1 credit(s)

**IDS 491 - Independent Study**

Independent study and/or research specifically related to the student's two or three areas of study. Conducted under faculty supervision. Prerequisite(s): IDS 201 and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**IDS 494 - Interdisciplinary Inquiry**

Facilitates the application of interdisciplinary research and research design. Students will develop research questions, and apply various research methodologies towards the completion of their Capstone projects. Students will determine how their work and ideas intersect with the chosen theme, employing their interdisciplinary skills to understand and explore the complexity of that theme. Prerequisite(s): Senior standing, IDS 201 and one of the following: HIST 251, IDS 240, PSC 302, PSY 240, SOC 241, SOC 403, WMST 302, COM 435, CRJ 301, JOUR 435, PUA 410, SW 416, SW 426. 3 credit(s)

**IDS 495A - Interdisciplinary Studies Capstone**

Entails the completion and presentation of a portfolio demonstrating a synthesis of the student's areas of study. Portfolio may include a comprehensive report, specialized field experience, internship, or creative production reflecting the interdisciplinary nature of the plan of study. Prerequisite(s): IDS 201, IDS 494. 3 credit(s)

**IDS 495B - Independent Study: Capstone II**

Completion and presentation of portfolio demonstrating a synthesis of student's areas of study. Through enrollment in a summer internship with an approved site, students complete work, including a capstone project, reflecting the interdisciplinary nature of the IDS degree. Must be taken in the student's senior year. Prerequisite(s): IDS 494 and consent of instructor. 3 credit(s)

**LAS 100 - Introduction to Latina/o Studies**

This course is designed to introduce students to the field of Latina/o Studies through the fields of history, sociology, political science, literature and education. Students will use multidisciplinary approaches to this field of study and intergrate the various fields to understand the complexity of researching this dynamic population. 3 credit(s)

**LAS 101 - Introduction to Latin American Studies**

Interdisciplinary introduction to the culture, history, and political economy of contemporary Latin America. Examines the history of colonialism and independence, values and social structures, political institutions, and economic relations in 'the region. 3 credit(s)

**LAS 499 - Latin American Studies: Independent Study**

Program of independent reading and research, to be selected in consultation with an instructor before registration, and with the approval of the Latin American Studies Program Chair. Prerequisite(s): LAS 101; and approval of Chair of LAS Program Committee. 3 credit(s)

**LIN 101 - Language and Conceptualization**

Study of natural and artificial languages as expressions of cognition and culture. Topics include language structure and origins, cognitive models, categorization, schemas, thinking for speaking, spatial language, parallel processing, language modules, and neural networks. Students analyze samples of natural language and reconstruct their underlying cognitive models. 3 credit(s)

**WMST 101 - Introduction to Women's Studies**

Introduction to the history, theories, methods, and issues that constitute the field of Gender and Sexuality Studies since its inception in the late 1960s. Begins with exploration of individual women's experiences on the personal level. Considers diverse women's issues locally, nationally, and globally. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**WMST 113 - Gender, Race and Class**

Interdisciplinary, cross-cultural survey of the ways in which gender interacts with race, age, class, and sexuality to shape human consciousness and determine the social organization of human society. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**WMST 247 - Philosophy and Women**

Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love, and self-realization; may include feminist critiques of the western philosophical tradition. Note(s): Same as PHIL 247. 3 credit(s)

**WMST 275 - Introduction to Marriage and Family**

Critically examines the institutions of marriage and family. Addresses issues such as alternative life choices and family violence, in the context of social, economic, and political factors. Prerequisite(s): SOC 101 or SOC 102. Note(s): Same as SOC 275. 3 credit(s)

**WMST 297 - Special Topics**

Topics of current interest not incorporated in regular offerings. May be repeated to a maximum of six credits. 3 credit(s)

**WMST 301 - Feminist Theory**

Formerly Listed as WMST 401.

American feminist thought in its diversity, examining the differences among liberal, radical, Marxist, socialist, psychoanalytic, and postmodern feminisms and the challenges to each posed by women of color. Prerequisite(s): WMST 101 and WMST 113. 3 credit(s)

**WMST 302 - Feminist Research Methodology**

Rigorous examination of the theory and application of feminist research methods. What are feminist research methods, and how do these methods differ from traditional research methods or "research on women?" Methods explored include: survey, interview, content analysis, experimental, oral history, case study, and action research. Prerequisite(s): WMST 101 and WMST 113. 3 credit(s)

**WMST 308 - Anthropology of Women**

Role of women in societies around the world. Social factors influencing women's status and the implications for anthropological theory and contemporary life. Prerequisite(s): ANTH 101, SOC 101, WMST 113. 3 credit(s)

**WMST 380 - Women and Media**

Exploration of the role of women within the media and the treatment of women by the media. Prerequisite(s): WMST 113. Prerequisites WMST 113. Note(s): Same as JOUR 380. 3 credit(s)

**WMST 400 - Rhetoric of Women's Rights**

Examination of the rhetorical campaign for woman suffrage and women's rights from the early nineteenth century up to passage of the 19th amendment to the U.S. Constitution in 1920. Emphasis on identifying, understanding, and evaluating major rhetorical strategies in their historical context. Prerequisite(s): COM 216. Note(s): Same as COM 401. 3 credit(s)

**WMST 401J - Women in Politics**

History of women in U.S. politics beginning with the suffrage movement and concluding with the most recent election. Topics include women as candidates, in office, as administrators, as lobbyists and as political activists. Concludes with a section on so-called "Women's Issues," choice, domestic violence, child support, day care, women's health and current issues. Prerequisite(s): WMST 113 or upper-division standing. Note(s): Same as HIST 453 & PSC 401J. 3 credit(s)

**WMST 407 - Communication Between the Sexes**

Introduction to gender research in communication. Studies ways in which language, interpersonal communication, the media, and various social institutions influence conceptions of gender. Prerequisite(s): Upper-division standing. Note(s): Same as COM 407. This course is crosslisted with WMST 607. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 408 - Making Gender, Sexuality, and Race**

Analysis of how regulations of sexuality, gender, and marriage converge with issues of race and class, and how people act upon gender, sexual, and racial differences. Prerequisite(s): ANTH 101 and ENG 101. 3 credit(s)



**WMST 411D - Constitutional Rights of Women**

Case approach to legal issues concerning abortion, contraception, sterilization, penalties of pregnancy, voting, access to professions, equal pay, and various forms of political, economic and social discrimination. Key constitutional provisions considered include judicial review, due process, equal protection, privileges and immunities, and right to privacy. Prerequisite(s): PSC 101. Note(s): Same as PSC 411D. 3 credit(s)

**WMST 418 - Language and Gender**

Examines from anthropological perspective the ways language and gender intertwine. Explores how language emerges from, reproduces, and challenges ideas of gender and gendered practices cross-culturally. Topics covered include the interaction of gender with race, identity and class in language use. Prerequisite(s): ANTH 101. Notes This course is crosslisted with WMST 618. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 426 - Contemporary Asian American Families**

Examination of the effect of transnational migration on Asian American families. Exploration of how the changing political, economic, and social circumstances in the United States and in Asian countries affect family structures and gender, racial, and intergenerational relations. Prerequisite(s): WMST 113 or upper-division standing. 3 credit(s)

**WMST 427B - Gender and Literature**

Study of gender and literature through the ages. Focus may be aesthetic, historical or thematic. Prerequisite(s): WMST 113 or upper-division standing. May be repeated for a maximum of six credits. Note(s): Topics may vary. Same as ENG 427B. 3 credit(s)

**WMST 428 - Women and Crime**

Women as offenders and as processed through the criminal justice system; women as victims and the response of the criminal justice system and the community. Prerequisite(s): CRJ 270 and CRJ 301. 3 credit(s)

**WMST 432A - History of American Women to 1870**

Examines the history of women in the United States from the period of European contact to reconstruction. Examines women's changing roles in the family, work force, politics, and social movements. Examines the historical experience of European colonists, Native Americans, African Americans, and immigrants. Prerequisite(s): Six credits of history. Note(s): Same as HIST 432A. This course is crosslisted with WMST 632A. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 432B - History of American Women, 1870 to the Present**

Women's relationship to the economy and to political movements, changing ideals of womanhood, the demographic and sexual revolutions transforming family life and gender roles, and class, race, ethnic, and regional variations in female experience. Prerequisite(s): Six credits of history. Note(s): Same as HIST 432B. This course is crosslisted with WMST 632B. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 440B - Gender and Early Literature**

Study of gender, sexuality, and literature from the beginning to the Early Modern period. Prerequisite(s): ENG 101 and ENG 102. Note(s): Topics may vary. Same as ENG 440B. 3 credit(s)

**WMST 441B - Gender and Renaissance Literature**

Study of gender and literature in the Renaissance. Prerequisite(s): ENG 102. Note(s): Same as ENG 441B. Topics may vary. 3 credit(s)

**WMST 446B - Gender and Modern British Literature**

Study of gender and literature in the British tradition. Prerequisite(s): ENG 102. Note(s): Same as ENG 446B. Topics may vary. 3 credit(s)

**WMST 448 - Gender and Social Interaction**

Examines the micro-social and political aspects of gender, including socialization into gender roles, same-sex and cross-sex communications, interactions, and long-term relationships. Prerequisite(s): WMST 113 or upper-division standing. Note(s): This course is crosslisted with WMST 648. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 449 - Sex and Social Arrangements**

Examination of human sexuality in social contexts. Emphasis on cross-cultural and historical comparisons with themes dealing with deviant sexuality, pornography, and homosexuality. Prerequisite(s): SOC 101 or SOC 102 or WMST 113. Note(s): Same as SOC 449. 3 credit(s)

**WMST 453 - Gender and Society**

Examines the micro-social and political aspects of gender, including socialization into gender roles, same-sex, and cross-sex communications, interactions, and long-term relationships. Prerequisite(s): SOC 101 or SOC 102. 3 Note(s): Same as SOC 453. credit(s)

**WMST 454B - Gender and Modern American Literature**

Study of gender and literature in the American tradition. Prerequisite(s): ENG 102. Note(s): Topics may vary. Same as ENG 454B. 3 credit(s)

**WMST 467 - Psychology of Gender**

Examination of gender—the “social role” of being male or female and the effects it has on people as individuals and as a society. Prerequisite(s): PSY 101. Note(s): Same as PSY 467. 3 credit(s)

**WMST 471 - Sexuality, Literature, and the City**

Explores how categories of sexuality change as the U.S. becomes increasingly urbanized. Texts include novels and stories, a history of sexual relations, and critical theory of the modern notion of “sexuality.” Prerequisite(s): WMST 101 or WMST 113. Note(s): This course is crosslisted with WMST 671. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 472 - Controversies in Gender and Race**

Situates selected current topics in historical, social, political, economic, intellectual, and popular culture contexts. Topics may include rape, police profiling, civil rights, reparations for slavery, feminist activism, immigration. Students develop and apply critical thinking, reading, and writing to variety of academic and non-academic situations. Prerequisite(s): WMST 101 or WMST 113. Note(s): This course is crosslisted with WMST 672. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 473 - Chicana Feminism and Experience**

Examines Chicana/Latina experiences as they intersect with race, class, gender, sexuality, and nation. Examines the work of Chicana/Latina writers, feminists, scholars, performers, artists, filmmakers, and activists. Focuses on issues such as immigration, labor, family, language, education, spirituality, identity, patriarchy, homophobia, and racism. Prerequisite(s): WMST 101 or WMST 113. Note(s): Satisfies Multicultural Requirement. This course is crosslisted with WMST 673. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 474 - Gender, Sexuality, and Consumer Culture**

Explores theoretical and empirical approaches to consumer culture, with a focus on gender, sexuality, class, and consumption. Examines the rise of mass consumerism in American society, and the ways social participation, individual identities, subcultural communities, and political life are shaped through varied acts of consumption. Prerequisite(s): WMST 101 or WMST 113. Note(s): This course is crosslisted with WMST 674. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 475 - Gender, Development, and Globalization**

Examines the relationship between women's position and processes of development and globalization, with a primary focus on Third World women. Considers the interaction of local and global forces in creating change (both positive and negative) and women's perspectives and activism for promoting social equality. Prerequisite(s): WMST 101 or WMST 113 Note(s): Satisfies International and Foreign Culture Requirement. This course is crosslisted with WMST 675. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 476 - Feminism and Activism**

Presents selected activist movements across the political spectrum. Includes nineteenth century abolitionism, women's rights and twentieth century socialism and feminism. Also examines movements for social change from the right and left. Prerequisite(s): WMST 101 or WMST 113 Note(s): This course is crosslisted with WMST 676. Credit at the 600-level requires additional work. 3 credit(s)



**WMST 477 - Critical Race Feminism**

Examination of feminist theories put forward by women of color. Topics include critical race feminist approaches to race, ethnicity, gender, class, sexuality, language, immigration, and labor. Prerequisite(s): WMST 101 or WMST 113. Note(s): Satisfies Multicultural Requirement. This course is crosslisted with WMST 677. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 482 - Women in the Performing Arts**

Explores the contributions by women to the performing arts of dance, music, and theater/film. Integrates the socioeconomic and historic factors that helped shape the artists' intentions and contributions. Prerequisite(s): DAN 100, DAN 101. Note(s): Same as DAN 482. 3 credit(s)

**WMST 483 - Feminist Issues in the Popular Arts**

Explores feminist issues found by female "pop" artists in the performing arts of dance, music, and theater/film from the 1940s to the present. Prerequisite(s): DAN 100, DAN 101, DAN 482, WMST 482. Note(s): Same as DAN 483. 3 credit(s)

**WMST 488 - Bodies, Sex, and Health**

Examines the impact of social, economic, scientific, and political issues on women's mental and physical health. Particularly recommended for students contemplating careers in medicine, counseling, social work, or public health. Includes structural analysis, advocacy, and ethical implications, as well as gender, race, class, and sexuality. Prerequisite(s): WMST 101 or WMST 113. 3 credit(s)

**WMST 490 - Special Topics**

Intensive study of a major topic in Gender and Sexuality Studies. Prerequisite(s): WMST 113. May be repeated to a maximum of twelve credits. Note(s): This course is crosslisted with WMST 690. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 491A - Women in the Ancient World**

(Same as HIST 491A.) Explores women's varied roles in the ancient Near East, Greece and Rome. Examination of women's participation in religion, politics and the family as well as representations of women in myth, art, philosophy, medicine, and literature. Prerequisite(s): Six credits of history. Note(s): Same as HIST 491A. This course is crosslisted with WMST 691A. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 491B - Women in Medieval Culture and Society**

(Same as HIST 491B.) Explores medieval women's experiences as religious leaders, workers, queens, and ladies of the manor, and as mothers, wives and daughters. Special attention paid to women's voices expressed in letters and autobiography, literature, historical records and art. Prerequisite(s): Six credits of history. Note(s): Same as HIST 491B. This course is crosslisted with WMST 691B. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 492A - Women in Early Modern Europe**

(Same as HIST 492A.) Explores the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women and work, women's participation in the creation of culture and religion, and the European witch-hunts. Prerequisite(s): Six credits of history. Note(s): Same as HIST 492A. This course is crosslisted with WMST 692A. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 492B - Women's Role in European History, 1750-1970**

(Same as HIST 492B.) Analysis and interpretation of women's roles in the modern world. Topics include the emergence of feminism and the international women's movement; the impact of industrialization on work and the family; constructions of gender, sexuality and motherhood. Prerequisite(s): Six credits of history. Note(s): Same as HIST 492B. 3 credit(s)

**WMST 495 - Special Topics in Gender and History**

(Same as HIST 495.) Study of a selected topic concerning gender and history. Prerequisite(s): Six credits of history. May be repeated to a maximum of six credits. Notes Same as HIST 495. This course is crosslisted with WMST 695. Credit at the 600-level requires additional work. 3 credit(s)

**WMST 497 - Feminist Praxis**

Capstone course where majors complete a project embodying the principles of feminist praxis and synthesize knowledge of Gender and Sexuality Studies, develop their own definition of feminist praxis, develop skills useful in post-undergraduate years, define a response to patriarchy, and develop alternative practices. Prerequisite(s): WMST 101, WMST 113, WMST 301 and WMST 302. 4 credit(s)

**WMST 498 - Internship in Women's Studies**

Students interact in a work or social setting that presents issues related to women. Arranged in consultation with the chair of women's studies. Prerequisite(s): Upper-division standing. May be repeated to a maximum of six credits. 1-6 credit(s)

**WMST 499 - Independent Study**

Independent study of special topics selected in consultation with the chair of women's studies. Prerequisite(s): Consent of chair. May be repeated to a maximum of six credits. 1-6 credit(s)

# Philosophy

## Purpose and Focus

Most disciplines have their origins in philosophy, and philosophy still underlies them all. Nevertheless, certain questions are enduringly philosophical — peculiarly fundamental questions concerning the ultimate nature of values, knowledge, and reality. Philosophy thus investigates general topics of human interest: morality and the good life, law and the political life, God and the sacred, good and bad reasoning, evidence and discovery, art and the beautiful. Studying philosophy requires learning how to listen and how to discuss; it involves sifting through ideas and articulating thoughts in ways that others can follow. It is little wonder, therefore, that not only is a degree in philosophy valuable in itself, but it is also widely recognized as an excellent preparation for careers in academics, law, medicine, and even business.

## Degree Objectives

One primary objective of a philosophical education is to instill an appreciation for Socrates’ adage, “The unexamined life is not worth living for a human being.” Other objectives of our particular program are:

1. To acquire facility in the theory and practice of argumentation, reasoning, and critical thinking;
2. To enhance abilities to speak and write;
3. To be able to appreciate, interpret, and evaluate the classics of Western philosophy from antiquity to the present;
4. To be knowledgeable about the central problems in the main branches of philosophical theory, such as metaphysics, epistemology, ethics, and the philosophy of science;
5. To be prepared for graduate study in philosophy or another academic field;
6. To have a basis for going to law school, medical school, divinity school, or another professional school.

## Accreditation

Northwest Commission on Colleges and Universities

## Undergraduate Major

Philosophy

## Academic Policies

All philosophy majors must achieve a 2.70 GPA in philosophy courses. All philosophy minors must achieve a 2.50 GPA in philosophy courses.

## Advisement

For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors are assigned or may select a faculty advisor who should be consulted for more specialized academic advising.

## Philosophy Major- Bachelor of Arts (BA)

Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at [www.http://phil.unlv.edu/](http://phil.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

Goal I: To exhibit facility in the theory and practice of argumentation, reasoning, and critical thinking;

Students shall be able to:

1. Master the practice of reasoning well including
  - The ability to construct clear and concise summarizations and assessments of the reasoning in complex passages by
    - Extracting their conclusions,
    - Distilling the lines of reasoning in support of those conclusions, and
    - Evaluating how well such reasoning supports those conclusions.
  - The ability to construct cogent arguments for their own conclusions and to express their reasoning in a coherent and convincing manner.
2. Demonstrate knowledge of, and competence with, the theory, of argumentation and logic through their abilities to:
  - Describe different approaches to logical theory, and to articulate their aims and scope,
  - Define and apply central concepts and techniques of logical theory,
  - Describe major results of logical theory, and
  - Sketch how to arrive at those results.

Goal II: To demonstrate an understanding of the classics of Western philosophy from antiquity to the present;

Students shall be able to:

- Identify major works or figures from at least three periods of the history of Western philosophy.
- Articulate and, when appropriate, compare or contrast, the overall philosophical positions taken by these works or figures,
- Summarize the major motivations or arguments for these positions,
- Present objections that have been raised or could be raised to these positions,
- Assess the relative merits of these arguments and objections.

Goal III: To demonstrate knowledge about central problems in major branches of contemporary philosophical theory, such as metaphysics, epistemology, ethics, and the philosophy of science;

Students shall be able to:

- Identify central issues or debates in at least three core areas of contemporary philosophical theory,
- Articulate and, when appropriate, compare or contrast, different views that might be taken with respect to these issues,
- Summarize major motivations or arguments for these alternative positions,
- Assess the relative merits of these arguments and objections.

## University Graduation Requirements

- Please see Graduation Policies for complete information
- |                                      |                         |
|--------------------------------------|-------------------------|
| Philosophy Degree Requirements ..... | Total: 120 Credits      |
| General Education Requirements ..... | Subtotal: 36-38 Credits |
| First-Year Seminar .....             | Credits: 2-3            |
| English Composition .....            | Credits: 6              |
| • ENG 101 - Composition I            |                         |
| • ENG 102 - Composition II           |                         |
| Second-Year Seminar .....            | Credits: 3              |
| Constitutions .....                  | Credits: 4              |

Mathematics..... Credits: 3  
 Distribution Requirement ..... Credits: 18-19  
 Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in Philosophy ..... Subtotal: 60 Credits  
 Foreign Language/Foreign Culture ..... Credits: 6  
 Humanities ..... Credits: 6  
 Fine Arts ..... Credits: 6  
 Philosophy Major Requirements ..... Credits: 42

- PHIL 101 - Introduction to Philosophy
- PHIL 114 - Introduction to Symbolic Logic
- PHIL 283 - Philosophy Milestone Experience
- PHIL 483 - Senior Seminar

and one other lower division course (excluding PHIL 102)

Any two of the following upper-level courses on the history of philosophy, one of which must be either: PHIL 401 or PHIL 403:

- PHIL 310 - Great Philosophers
- PHIL 401 - Ancient Philosophy
- PHIL 402 - Medieval Philosophy
- PHIL 403 - Early Modern Philosophy
- PHIL 404 - Nineteenth-Century Philosophy
- PHIL 405 - Contemporary Philosophy
- PHIL 406 - American Philosophy
- PHIL 410 - Plato
- PHIL 411 - Aristotle
- PHIL 415 - Kant
- PHIL 431 - History of Scientific Thought

or any other relevant upper-level courses approved by the department chair.

Any two of the following upper-level courses on contemporary philosophical topics (excluding value theory):

- PHIL 330 - Computers and Culture
- PHIL 342 - Phenomenology
- PHIL 356 - Theories of Culture
- PHIL 425 - Philosophy of Language
- PHIL 430 - Philosophy of Science
- PHIL 432 - Philosophy of the Social Sciences
- PHIL 433 - Philosophical Psychology
- PHIL 434 - Philosophy of Cognitive Science
- PHIL 435 - Philosophy of Mind
- PHIL 440 - Theory of Knowledge
- PHIL 441 - Metaphysics

- PHIL 459 - Philosophy of Religion
- PHIL 472 - Selected Topics in Religion

or any other relevant upper-level courses approved by the department chair.

One of the following upper-level courses on Value Theory:

- PHIL 311 - Professional Ethics
- PHIL 320 - Philosophy of Law
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory
- PHIL 452 - Aesthetics

or any other relevant upper-level courses approved by the department chair.

Fourteen credits of electives within philosophy, 12 of which must be at the 300-400 level

Electives..... Credits: 22-24

Total Credits: ..... 120

Philosophy Major: Law and Justice Concentration ..... Credits 12  
 Majors may choose their electives to fulfill the requirements for a legal studies centered concentration.

Required

- PHIL 320 - Philosophy of Law

Two of the following ethics and public policy courses:

- PHIL 311 - Professional Ethics
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory

The following reasoning theory course:

- PHIL 114 - Introduction to Symbolic Logic

## Philosophy Minor

Courses Include ..... Total Credits: 18•

PHIL 101 - Introduction to Philosophy

or

- PHIL 102 - Critical Thinking and Reasoning
- PHIL 105 - Evidence and Inductive Reasoning
- PHIL 114 - Introduction to Symbolic Logic

and 15 additional PHIL credits, 12 of which must be upper division (300-400) level.

## Philosophy, Law and Justice Minor

The Philosophy Department also offers a legal studies centered Philosophy minor.

Courses Include ..... Total Credits: 18

- PHIL 102 - Critical Thinking and Reasoning
- PHIL 320 - Philosophy of Law

Two of the following ethics and public policy courses, one of which must be above the 300 level:

- PHIL 135 - Introduction to Ethics
- PHIL 242 - Ethics For Engineers and Scientists
- PHIL 245 - Contemporary Moral Issues
- PHIL 249 - Environmental Ethics
- PHIL 311 - Professional Ethics
- PHIL 345 - Health Care Ethics
- PHIL 446 - Social and Political Philosophy
- PHIL 450 - Ethical Theory

Two additional upper division (300-400) philosophy courses.

## **Philosophy**

### **PHIL 101 - Introduction to Philosophy**

Study of selected great philosophers or basic problems involving imaginative and critical interpretations of experience and reality. 3 credit(s)

### **PHIL 102 - Critical Thinking and Reasoning**

Introduction to the analysis and evaluation of actual arguments, to the practice of constructing logically sound arguments, and to logic as the theory of argument. Emphasizes arguments of current or general interest. 3 credit(s)

### **PHIL 105 - Evidence and Inductive Reasoning**

Introductory study of concrete issues, involving the analysis of evidence, causal explanation, statistical inference, generalization, and probability. Emphasizes issues in such areas as the law, the sciences, economics, and education. 3 credit(s)

### **PHIL 114 - Introduction to Symbolic Logic**

Formerly Listed as PHIL 109.

Principles of correct reasoning, using modern symbolic techniques of propositional calculus and simple quantification. 3 credit(s)

### **PHIL 115 - Philosophy of Death and Dying**

Philosophical study of the language and theories of death, and of cultural attitudes and beliefs, including preparation for death, fear of death, and the possibility of immortality. 3 credit(s)

### **PHIL 117 - Indian Philosophy of Mind and Mental Health**

Critical discussion of philosophical psychology and practices leading to self-realization; contemporary neurophysiology and psychology, including concepts of self, mind, psychosomatic health and knowledge (Jnana). 3 credit(s)

### **PHIL 124 - Philosophical Traditions of Asia**

Study of the nature of self, mind, knowledge, truth, logic and related themes characteristic of India, China, Japan, or any other Asian country; any one of these may be taught separately. May be repeated to a maximum of nine credits. 3 credit(s)

### **PHIL 130 - Topics in Philosophy or Religion**

Study of special topics in philosophy or religion taken at the introductory level (e.g., philosophy of atheism, ethics of euthanasia, abortion, etc.). May be repeated to a maximum of six credits. 1-3 credit(s)

### **PHIL 135 - Introduction to Ethics**

Historical and critical introduction to ethics from ancient Greece and Biblical ethics to the present. Includes such topics as conscience and self-betrayal, formation of character, integrity, trust, justice, and corruption. 3 credit(s)

### **PHIL 203 - Existentialism**

Series of currents and thinkers in contemporary philosophy examined in order to explore the concept of human existence and life in the work of Kierkegaard, Dilthey, and Nietzsche. Other philosophers include Jaspers, Heidegger, Sartre, and Ortega Y Gasset. 3 credit(s)

### **PHIL 205 - Science and Religion**

Selected problems and episodes in the interaction between science and religion, such as the seventeenth-century condemnation of Galileo, the eighteenth-century controversy about natural religion, and the recent creation-evolution debate in the United States. 3 credit(s)

### **PHIL 210 - World Religions**

Critical introduction to the nature of religion. Special emphasis placed on the role of myths, symbols, ritual, religious experience, and religious institutions. Selected topics of the literature of Hinduism, Buddhism, Taoism, Confucianism, Judaism, Christianity, or Islam studied. 3 credit(s)

### **PHIL 217 - Introduction to the Study of Marxism**

Fundamentals of Marx's views; their philosophical, political, and economic origins and implications; their connection to communism, Leninism, and socialism; objections by Croce, Popper, Hook, etc. 3 credit(s)

### **PHIL 225 - Introduction to Indian Philosophy**

Introductory critical survey of the classical schools of Indian philosophy such as the Vedas, Upanishads, Bhagavad Gita, Samkhya Yoga, Nyaya, Vaisheshika, Mimamsa, Vedanta, Jainism, Buddhism, and such recent thinkers as Gandhi. 3 credit(s)

### **PHIL 242 - Ethics For Engineers and Scientists**

Ethical issues (e.g., whistle blowing, the environment) that commonly arise in engineering and science practice. Ethical theory, followed by case-study centered discussions designed to hone students' abilities to recognize and articulate ethical problems and to utilize institutional supports for ethical behavior that already exist in the professional environment. Note(s): Fulfills Second Year Seminar requirement. 3 credit(s)

### **PHIL 245 - Contemporary Moral Issues**

Introduction to ethics by way of such current issues as war and atrocity, the purpose of the university, racism, women's liberation, violence and aggression, the notions of happiness and success, or ethics of ecology. 3 credit(s)

### **PHIL 247 - Philosophy and Women**

Variety of philosophical writings by or about women, from Plato to the present, focusing on such key concepts as nature, equality, dignity, freedom, love, and self-realization; may include feminist critiques of the Western philosophical tradition. 3 credit(s)

### **PHIL 249 - Environmental Ethics**

Explores fundamental concepts of human obligations toward other life forms and ecosystems. Includes such issues as rights of animals, plants, and inanimate objects; endangered species; water, soil, and air quality; toxic and other wastes; vegetarianism; global warming. 3 credit(s)

### **PHIL 302 - Intermediate Critical Thinking and Reasoning**

Designed to extend the theory and practice of reasoned argument by the analysis, evaluation, reconstruction, and construction of extended examples drawn from such fields as philosophy, literature, religion, natural and social sciences, the arts, or contemporary affairs. Prerequisite(s): PHIL 102. 3 credit(s)

### **PHIL 310 - Great Philosophers**

Examines the works of one or more great philosophers as a means of addressing some of the central questions of philosophy. Prerequisite(s): Upper-division standing. Note(s): May be repeated to a maximum of nine credits. 3 credit(s)

### **PHIL 311 - Professional Ethics**

Ethical problems current in the law, medicine, finance, government, journalism, and business, with particular emphasis on the classics of our ethical heritage. Prerequisite(s): PHIL 102. 3 credit(s)

### **PHIL 320 - Philosophy of Law**

Study of the meaning of law, particularly legal reasoning, positive and normative functions of the law, and the nature of justice. Such legal theorists as Plato, Aquinas, Hobbes, Kant, Hegel, Hart, and Dworkin studied. Prerequisite(s): PHIL 102. 3 credit(s)

### **PHIL 322 - Inductive Logic and Probability**

Examination of the methods of inductive logic. Alternative concepts of probability. Study of mathematical probability and a study of such topics as the problem of induction, confirmation, and simplicity. Relevance of inductive logic to scientific method. Prerequisite(s): PHIL 105. 3 credit(s)

### **PHIL 330 - Computers and Culture**

Investigates how the computer revolution influences the understanding of people as rational and moral agents. Covers computation and symbol manipulation; artificial intelligence and the mechanization of reason; robotics; virtual realities; and informational complexity. Prerequisite(s): Upper-division standing. 3 credit(s)

### **PHIL 342 - Phenomenology**

Study of the phenomenological method and its application in such fields as social sciences, aesthetics, value theory and theory of science. Prerequisite(s): Upper-division standing. 3 credit(s)



**PHIL 345 - Health Care Ethics**

Decision-making about ethics in medical contexts. Addresses intensely personal issues such as pain and suffering, death, God and family relations. Topics include euthanasia, genetic screening, distribution of resources, organ transplants and reproductive technologies. Prerequisite(s): Upper-division standing. 3 credit(s)

**PHIL 352 - Special Topics**

Intensive study of one major problem in philosophy. Prerequisite(s): Upper-division standing. May be repeated to a maximum of 12 credits. 3 credit(s)

**PHIL 356 - Theories of Culture**

Study of the nature of culture norms, with reference to art, language, communication, religion, science, etc. Examination of the theoretical underpinnings of the study of culture in the humanities, the social sciences, and in cultural studies. Prerequisite(s): Upper-division standing. Note(s): Same as SOC 356. 3 credit(s)

**PHIL 401 - Ancient Philosophy**

Philosophy from the pre-Socratics to Plotinus, including the Sophists, Plato, Aristotle, the Epicureans, Stoics, Skeptics, and early Christian writers. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 601\*. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 402 - Medieval Philosophy**

Philosophy from Augustine to Nicholas of Cusa, including Boethius, Pseudo-Dionysius, John Scotus Eriugena, Anselm, Abelard, Avicenna, Moses Maimonides, Averroes, Bonaventure, Roger Bacon, Aquinas, Duns Scotus, William of Ockham. Prerequisite(s): PHIL 101. 3 credit(s)

**PHIL 403 - Early Modern Philosophy**

Renaissance and early modern philosophy from the Italian Renaissance to Kant, including such figures as Leonardo, Pico, Erasmus, Luther, Montaigne, Descartes, Bacon, Hobbes, Spinoza, Locke, Leibniz, Vico, Berkeley, Hume, and Kant. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 634. Credit at the 600-level requires additional work. This course is crosslisted with PHIL 603. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 404 - Nineteenth-Century Philosophy**

Study of the major philosophers and philosophical currents of the nineteenth century introduced first by Kant's critical period; the movement from Kant through Hegel's absolute idealism; other important currents, including historical materialism (Marx), positivism (Comte), utilitarianism (Bentham, Mill), and pragmatism (C.S. Peirce). Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 604. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 405 - Contemporary Philosophy**

Study of the movements of twentieth-century thought: Vitalism, neo-Kantianism, dialectical materialism, phenomenology, existentialism, neopositivism, analysis, neo-Thomism, and American naturalism and pragmatism. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 605. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 406 - American Philosophy**

Development of philosophy in America from the Transcendentalists and the St. Louis School through Royce, Peirce, James, Dewey, and Santayana. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 606. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 410 - Plato**

Analysis of selected dialogues. Prerequisite(s): Three credits of upper-division philosophy. 3 credit(s)

**PHIL 411 - Aristotle**

Analysis of selected treatises. Prerequisite(s): Three credits of upper-division philosophy. 3 credit(s)

**PHIL 415 - Kant**

Intensive study of one or more of Kant's major writings; e.g., the Critique of Pure Reason, Critique of Practical Reason, Critique of Judgment, Metaphysics of

Morals. Prerequisite(s): 6 credits of Philosophy. Note(s): This course is crosslisted with PHIL 615. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 420 - Logical Theory**

General study of the nature of argument; how it relates to reasoning, criticism, deduction, logical form, evidence, induction, and persuasion. Emphasizes both the systematic development of logical concepts and their application to actual arguments. Prerequisite(s): PHIL 114. Note(s): This course is crosslisted with PHIL 620. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 422 - Advanced Logic**

Study of formal logic through first-order logic with identity. Soundness, completeness, compactness and other metatheorems. Other topics may include computability, modal logic, epistemic logic, many-valued logic, the logic of conditionals, higher-order logics, infinitary logics or non-monotonic logics, number theory, Gödel's theorems, and the limits of logicism. Prerequisite(s): PHIL 114. Note(s): This course is crosslisted with PHIL 622. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 425 - Philosophy of Language**

Nature, acquisition and structure of language, including such philosophical issues as meaning, reference, speech acts and semantics. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 625. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 430 - Philosophy of Science**

Study of the nature of scientific method and theory construction, and of causality, explanation, determinism, indeterminism, and probability. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 625. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 431 - History of Scientific Thought**

Study of selected topics in the history of science, such as the impact of Euclidean geometry, the Copernican Revolution, the origin of modern science, the development of non-Euclidean geometry, the transition from classical to modern physics, and the rise of evolutionary biology. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 631. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 432 - Philosophy of the Social Sciences**

Study of problems confronted by social scientists such as cultural relativism, methodological individualism, whether social sciences resemble natural sciences, and the role of value judgments in research. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 632. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 433 - Philosophical Psychology**

Study of the nature of human consciousness, mind, and intention, and their interrelation with perception and action with reference to relevant scientific findings of artificial intelligence and brain-behavior relationships. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 633. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 434 - Philosophy of Cognitive Science**

Critical assessment of interdisciplinary approaches to topics such as the philosophy of: innate knowledge, memory, mental representation, artificial intelligence, rationality, intentionality, and parallel computation. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 634. Credit at the 600-level requires additional work. 3 credit(s)

**PHIL 435 - Philosophy of Mind**

Study of issues such as the mind-body problems, consciousness, intention, meaning, explaining human action, artificial intelligence, and roles of imagery, language and computer-like processing in cognition. Prerequisite(s): Upper division standing and 3 credits of philosophy. 3 credit(s)

**PHIL 437 - Philosophy of History**

Theory, epistemology, and methodology of historiography, dealing with such questions as the nature, aims, and methods of history; its status as a science; the legitimacy of the so-called speculative philosophy of history; and the structure of historical knowledge. Prerequisite(s): PHIL 101, or PHIL 102 or PHIL 114, or six credits of history. Note(s): Same as HIST 496. 3 credit(s)

### **PHIL 440 - Theory of Knowledge**

Study of how we know. Includes such problems as belief, evidence, perception, skepticism, and other minds. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 640. Credit at the 600-level requires additional work. 3 credit(s)

### **PHIL 441 - Metaphysics**

Study of theories of being, including such problems as substance, emanation, participation, essence, universals, process and time. Covers such philosophers as Aristotle, Plotinus, Leibniz, Whitehead, and Heidegger. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 641. Credit at the 600-level requires additional work. 3 credit(s)

### **PHIL 446 - Social and Political Philosophy**

Traditional and contemporary interpretations of the nature of society and the state, and analysis of important concepts such as liberty, justice, law, and right. Prerequisite(s): Upper-division standing. 3 credit(s)

### **PHIL 450 - Ethical Theory**

Study of philosophical theories of human conduct and character, together with relations of ethical theory and moral action. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 650. Credit at the 600-level requires additional work. 3 credit(s)

### **PHIL 452 - Aesthetics**

Study of aesthetic standards, the nature of art and artistic creativity, and the function of art in human experience. Prerequisite(s): Upper-division standing. Note(s): This course is crosslisted with PHIL 652. Credit at the 600-level requires additional work. 3 credit(s)

### **PHIL 459 - Philosophy of Religion**

Study of conceptions of God and of the nature and meaning of religious experience. Prerequisite(s): PHIL 101 or 120. Note(s): This course is crosslisted with PHIL 659. Credit at the 600-level requires additional work. 3 credit(s)

### **PHIL 467 - Indian Philosophy**

Critical study of classical Indian philosophy of the Vedic and non-Vedic schools with special reference to their epistemology, metaphysics, and ethics. Includes such topics as the philosophy of the Vedas, Upanishads, Bhagavad Gita, Samkhya Yoga, Vedanta, Jainism, Buddhism, and contemporary thinkers. Prerequisite(s): Upper-division standing. 3 credit(s)

### **PHIL 468 - Chinese and Japanese Philosophy**

Study of Confucianism, Taoism, the School of Names, Legalist School, Ch'an Buddhism, Shintoism, Zen Buddhism, and contemporary issues. Prerequisite(s): Upper-division standing. 3 credit(s)

### **PHIL 469 - Gandhian Welfare Philosophy and Culture**

Introduction to the chosen topics in Gandhian welfare philosophy. Ethical, moral, social, and political foundations of Gandhian thought explored and their applications to problem resolution strategies and peaceful change at different levels demonstrated. Note(s): Same as SW 493. 3 credit(s)

### **PHIL 472 - Selected Topics in Religion**

Intensive study of one major topic in religion. Prerequisite(s): Upper-division standing. 3 credit(s) Prerequisite(s): Six credits in philosophy.

### **PHIL 482 - Living Philosophers Colloquium**

This one credit course exposes students to the work of living philosophers working in the profession today, by having them attend a series of lectures, each given by a different professional philosopher. Prerequisite(s): Prior course in Philosophy. May be repeated to a maximum of four credits. Note(s): S/F grading only. 1 credit(s)

### **PHIL 499 - Directed Study**

Directed study in selected problems in philosophy under the supervision of one or more members of the department. Student must submit to the proposed instructor a written prospectus of some research problem. Prerequisite(s): Upper-division standing and consent of instructor. May be repeated to a maximum of six credits. Note(s): Topic must be discussed with and approved by the instructor prior to registration. 1-3 credit(s)

## **Political Science**

### ***Degree Objectives/Learning Outcomes***

The Department of Political Science seeks to instill in its graduates a variety of skills and levels of knowledge that will serve them regardless of the profession they ultimately choose. Among these objectives are:

1. To enhance their abilities to communicate in both written and oral form;
2. To enhance their ability to think through and compare competing theories and information utilizing logical and analytical means.
3. To be knowledgeable in the six subfields of the discipline including major trends, debates, theories, and methods.
4. To be prepared for graduate study in political science or a related discipline such as law.

### ***Accreditation***

Northwest Commission on Colleges and Universities

### ***Undergraduate Major***

Political Science

### ***Department Policies***

#### **Special Areas of Interest**

American Politics  
Public Policy  
Public Law  
International Relations/Foreign Policy  
Comparative Politics  
Political Theory

**Course Distribution:** Students must take 30 political science credits at the 300–400 level. Courses must be selected from all six areas and be distributed as follows:

1. Two courses in three areas
2. One course in a fourth, fifth and sixth area
3. One elective

### **Political Science Culminating Experience Internships**

Internships may be taken as general electives.

### ***Advisement***

For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors and minors should see a faculty advisor for career advising and for more specialized academic advising.

### **Political Science Major- Bachelor of Arts (BA)**

Please see the UNLV College of Liberal Arts, Interdisciplinary Degrees web page at [liberalarts.unlv.edu/Political\\_Science/](http://liberalarts.unlv.edu/Political_Science/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

1. Use critical reasoning skills for problem solving.
2. Write persuasively so as to articulate, support, and defend an argument.
3. Apply the research process in the social sciences so as to differentiate between normative and empirical perspectives, comprehend the difference between deterministic and probabilistic outcomes, and assess the strengths and weaknesses of the major analytical approaches used in applied research (e.g., quantitative, qualitative, formal).
4. Consume and understand sophisticated information communicated through the media and scholarly writing.
5. Fulfill the obligations and expectations of citizenship in a democratic society.
6. Explain how political outcomes are shaped by the of the interplay between preferences and institutions.
7. Describe the multiple motivations and constraints that underlie and shape political behavior.
8. Explain how outcomes in the political and social world are affected by the multiple causal factors.
9. Describe how multiculturalism shapes international political exchanges and outcomes.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements.....Total: 120 Credits  
(See Note 1 below)

General Education Requirements ..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement: Credits 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BA in Political Science .....Subtotal: 64 Credits

Social Science..... Credits: 9

Fine Arts ..... Credits: 3

Foreign Languages/Foreign Culture..... Credits: 6

Political Science Major Requirements..... Credits: 16

- PSC 101 - Introduction to American Politics
- PSC 200 - Survey of Political Theory
- PSC 211 - Introduction to Comparative Politics
- PSC 231 - Introduction to International Relations
- PSC 302 - Research Methods in Political Science

Special Area of Interest ..... Credits: 27

Students select two courses from three of the following areas and one course from the remaining three areas:

American Politics:

- PSC 304 - The Legislative Process
- PSC 305 - The American Presidency
- PSC 312 - Political Parties and Interest Groups
- PSC 314 - Religion and the Political Process
- PSC 316 - Politics of Abortion
- PSC 401A - Urban Politics
- PSC 401B - Mass Media and American Politics
- PSC 401C - Money in U.S. Politics
- PSC 401D - State Politics
- PSC 401F - Public Opinion and Political Behavior
- PSC 401G - Political Campaigns and Elections
- PSC 401I - Ethnic and Minority Politics
- PSC 401J - Women in Politics
- PSC 401K - American Political Movements
- PSC 401O - U.S. Elections and Governance
- PSC 401Z - Special Topics in American Politics

Public Policy:

- PSC 320 - Policy Analysis
- PSC 321 - Analyzing Policy Issues
- PSC 403A - Natural Resource Policy
- PSC 403B - Energy Politics and Policy
- PSC 403C - Environmental Policy
- PSC 403F - U.S. Nuclear Policy: Weapons and Waste
- PSC 403I - National Security Policy
- PSC 403J - Political Ethics and Political Corruption
- PSC 403L - Morality Policy
- PSC 403Z - Special Topics in Public Policy

Public Law:

- PSC 330 - Constitutional Law: Governmental Powers
- PSC 332 - Judicial Process
- PSC 411A - Constitutional Law: The First Amendment
- PSC 411B - Constitutional Law: Civil Rights
- PSC 411C - Legal Theory
- PSC 411D - Constitutional Rights of Women
- PSC 411E - Constitutional Rights of the Accused
- PSC 411F - Constitutional Theory
- PSC 411H - Comparative Law
- PSC 411I - Supreme Court and Capitalism
- PSC 411Z - Special Topics in Public Law

International Relations:

- PSC 405B - International Law and Organizations
- PSC 405C - Inter-American Relations
- PSC 405DR - U.S. Foreign Policy
- PSC 405E - Foreign Policy of the Major Powers
- PSC 405J - The European Union
- PSC 405K - International Relations of the Middle East and North Africa
- PSC 405L - East Asia in World Politics
- PSC 405M - The Pacific Rim and World Politics

- PSC 405N - Regional and International Relations of Latin America and the Caribbean
- PSC 405O - Model United Nations
- PSC 405P - Global Political Economy
- PSC 405Q - Global Ecopolitics
- PSC 405R - Africa in World Politics
- PSC 405S - U.S. Strategic Intelligence
- PSC 405T - International Environmental Politics
- PSC 405U - International Security
- PSC 405V - International & U.S. Immigration Policy
- PSC 405Y - Global Economic Governance
- PSC 405Z - Special Topics in International Relations and Foreign Policy

PSC 405O may not be used as the only course in the International Relations area.

Comparative Politics:

- PSC 407A - Political Systems of West Europe
- PSC 407B - Political Systems of East Asia
- PSC 407C - Political Systems of Russia and East-Central Europe
- PSC 407D - Political Systems of the Middle East and North Africa
- PSC 407E - Politics in Latin America
- PSC 407G - Communist Political Systems
- PSC 407I - Politics and Problems in Developing Areas
- PSC 407K - Comparative Religion and Politics
- PSC 407M - The Mexican Revolution
- PSC 407N - Revolution and Reaction in Contemporary Latin America
- PSC 407O - Islamic Politics
- PSC 407Q - Political Violence and Terrorism
- PSC 407T - The Politics of Sub-Saharan Africa
- PSC 407U - Democratization
- PSC 407W - Politics Of Catholicism
- PSC 407Z - Special Topics in Comparative Politics

Political Theory:

- PSC 371 - Ancient Political Theory
- PSC 373 - Early Modern Political Theory
- PSC 374 - Late Modern Political Theory
- PSC 375 - Recent Political Theory
- PSC 409C - American Political Thought
- PSC 409E - Political Theory and Political Education
- PSC 400E - Politics in Literature
- PSC 409H - The Problem of Socrates
- PSC 409I - Marx and Marxism
- PSC 409J - Feminist Political Theory
- PSC 409L - Medieval Political Theory
- PSC 409Z - Special Topics in Political Theory

Political Science Culminating Experience ..... Credits: 3

- PSC 499 - Senior Seminar

or

- HON 499 - Honors Thesis/Project II

Upper-division electives selected from the above groups, according to department policy, or from the following courses.

PSC 400A - Elements of Survey Research

PSC 400E - Politics in Literature

PSC 400F - Politics in Film

Electives..... Credits: 18-20

At least 12 of which must be in upper-division courses.

Total Credits: ..... 120

## Notes

1. Alls political science courses must be completed with a grade of C- or higher to be counted towards the degree program in Political Science.
2. PSC 200 and PSC 302 must be taken to satisfy the Milestone Experience Requirement.

## Political Science Minor

Courses Include ..... Total Credits: 28

- PSC 101 - Introduction to American Politics
  - PSC 200 - Survey of Political Theory
  - PSC 211 - Introduction to Comparative Politics
  - PSC 231 - Introduction to International Relations
- and
- PSC 302 - Research Methods in Political Science

are required courses. In addition students must take any four upper-division (300–400 level) PSC courses (12 credits) from among the six areas.

## Political Science

### PSC 100 - Nevada Constitution

For students who have met the U.S. Constitution requirement with a course that includes no information about Nevada. Includes a brief history of Nevada prior to statehood, commentary on the Nevada Constitution, and analysis of the political, economic, and social characteristics of the state today. Note(s): (Satisfies Nevada Constitution Requirement.) 1 credit(s)

### PSC 101 - Introduction to American Politics

A survey of American national, state and local governments; includes review of Nevada's constitution, government and contemporary issues. Note(s): (Satisfies the United States and Nevada Constitutions Requirement.) 4 credit(s)

### PSC 200 - Survey of Political Theory

Survey of political theory from Plato to contemporary times. 3 credit(s)

### PSC 211 - Introduction to Comparative Politics

Major conceptual, methodological, and theoretical tools in comparative politics. Distinguishes between developed and developing systems, and examines contemporary issues of the developed systems and problems of underdevelopment. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

### PSC 231 - Introduction to International Relations

General introductory course to the field of foreign policy and international politics. Mainly theoretical in nature but such concepts as revolution, economic and political development, and nationalism also considered. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

### PSC 302 - Research Methods in Political Science

Focuses on research design and collection and analysis of empirical data; utilization of library and electronic media. Includes methodological debates within the social sciences; covers questions of measurement, sampling, and data analysis. Equips students to conduct research and to evaluate research critically. Prerequisite(s): PSC 101, PSC 200, PSC 211, PSC 231 and sophomore or junior standing only. 3 credit(s)

### PSC 304 - The Legislative Process

Study of the legislative process, with special emphasis on the U.S. Congress. Topics covered include internal distribution of power (parties and committees), external influences (the electorate, the executive, interest groups), and current problems (ethics, accountability, and campaign financing). Prerequisite(s): PSC 101. Note(s): (Satisfies the United States Constitution Requirement.) 3 credit(s)



**PSC 305 - The American Presidency**

Study of the American presidency from 1787 to the present. Analysis of the powers of the President and the relationship of the office to the American political system. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 312 - Political Parties and Interest Groups**

Study of major political parties from a historical perspective, with focus on their differing platforms, memberships, and strategies. Types of interest groups and their impact on the policy-making process also analyzed. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 314 - Religion and the Political Process**

Examines role of religion in American politics. Topics include constitutional issues of church-state relations, effect of religious beliefs and memberships on political behavior, and normative issues concerning compatibility of obligations of democratic citizenship and religious discipleship. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 316 - Politics of Abortion**

Examines issue of abortion in American politics. Topics include normative issues regarding rights of the fetus, constitutional issues relating to reproductive freedom, the role of religion in abortion politics, political behavior of pro-life and pro-choice activists, and behavior and attitudes of the mass public. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 320 - Policy Analysis**

Analysis of the political and economic values and processes involved in the making of public policy in the United States today. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 321 - Analyzing Policy Issues**

Contemporary public policy issues, such as environmental protection, abortion, welfare, legalization of drugs, health care, gun control, taxes, etc. Background of policy issues and skills in analyzing and evaluating arguments on different sides of each issue. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 330 - Constitutional Law: Governmental Powers**

Case approach to the interpretation of the United States Constitution, with emphasis on powers of the Judiciary, Congress, and the Presidency. Attention also devoted to the Commerce Clause and federal-state relations. Prerequisite(s): PSC 101. Note(s): (Satisfies the United States Constitution Requirement.) 3 credit(s)

**PSC 332 - Judicial Process**

Analysis of the political context of the judicial process. Topics include the structure and function of American court systems, court staffing, judiciary, roles of lawyers and other actors in the American legal system. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 371 - Ancient Political Theory**

Critical study of the major political thinkers before the Christian era. Readings may include Thucydides, Plato, Xenophon, Aristotle, and Cicero. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 373 - Early Modern Political Theory**

Critical study of the major thinkers from the Renaissance until Rousseau. Readings may include Machiavelli, Luther, Calvin, Hooker, Bacon, Grotius, Hobbes, Descartes, Milton, Spinoza, Locke, Montesquieu, and Hume. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 374 - Late Modern Political Theory**

Critical study of the major political thinkers from Rousseau until the twentieth century. Readings may include Rousseau, Kant, Blackstone, Smith, Paine, Burke, Bentham, Hegel, J.S. Mill, Marx, and Nietzsche. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 375 - Recent Political Theory**

Critical study of the major political thinkers and main currents in political thought in the twentieth century. Readings may include Dewey, Husserl, Heidegger, communists, and fascists. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 400A - Elements of Survey Research**

Covers all survey methods from questionnaire design to implementation to analysis using statistical software. Focuses on designing academic survey projects and using survey methods for graduate research projects. Students work on original research design adapted from the class. Prerequisite(s): PSC 101, PSC 302. 3 credit(s)

**PSC 400F - Politics in Film**

Analysis of the political film. Themes treated include political power, corruption, war, revolution, propaganda, political socialization, and participation. Prerequisite(s): PSC 101. Note(s): Same as FIS 409. 3 credit(s)

**PSC 401A - Urban Politics**

Study of formal and informal structures and workings of local, urban, and metropolitan society and politics. Examines variety of issues related to local and regional political process, including governing capacity, local democracy and representation, and economic and racial inequality. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 401B - Mass Media and American Politics**

Overview of theoretical and applied literature on mass political communication with attention to historical evolution and legal underpinnings of mass media roles in democratic governance. Focus on types of and interactions between mass media and political actors as well as media effects on public opinion. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 401C - Money in U.S. Politics**

Survey of theoretical and applied debates over campaign financing and reform with attention to historical development, legal underpinnings, and principle participants in American national and state systems of campaign finance. Develops students' capacities to analyze and interpret patterns and effects of campaign finance along with implications for democratic government. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 401D - State Politics**

Political, constitutional, fiscal, and regulatory aspects of state and local government in the American system, with particular emphasis with selected readings and discussions on campaigns and elections. Prerequisite(s): PSC 101. Note(s): (Satisfies the Nevada Constitution Requirement.) 3 credit(s)

**PSC 401F - Public Opinion and Political Behavior**

Study of factors which shape basic political attitudes and circumstances which result in different kinds of political behavior. Political socialization process, both its agents and its consequences, also explored. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 401G - Political Campaigns and Elections**

Participating in and analyzing an election campaign of choice, students have an opportunity to integrate practical experience with selected readings and discussions on campaigns and elections. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 401I - Ethnic and Minority Politics**

Examines the role of subcultures in the American political process. Groups studied include traditionally recognized minorities (women, Blacks, Native Americans) as well as white ethnics, Asians, and various Latin-based groups. Focuses on mobilization efforts, policy concerns and obstacles and accomplishments. Prerequisite(s): PSC 101. Note(s): (Satisfies Multicultural Requirement.) 3 credit(s)

**PSC 401J - Women in Politics**

History of women in U.S. politics beginning with the suffrage movement and concluding with the most recent election. Topics include women as candidates, in office, as administrators, as lobbyists and as political activists. Concludes with a section on so-called Women's Issues, choice, domestic violence, child support, day care, health and current issues. Prerequisite(s): PSC 101. Note(s): Same as HIST 453 & WMST 401J. 3 credit(s)

**PSC 401K - American Political Movements**

Overview of the theoretical and applied literature on mass-based political movements applied to the civil rights, students, women's, peace, and environmental movements. Prerequisite(s): PSC 101. Note(s): (Satisfies Multicultural Requirement.) 3 credit(s)

**PSC 4010 - U.S. Elections and Governance**

This course investigates the causes and consequences of the growing chasm between contemporary electoral politics and the capacity for governance in the United States and evaluates potential reforms to each of those processes. Prerequisites PSC 101. 3 credit(s)

**PSC 401Z - Special Topics in American Politics**

Prerequisite(s): PSC 101. May be repeated to a maximum of six credits with different topics. 3 credit(s)

**PSC 403A - Natural Resource Policy**

Examines environmental policy primarily as it relates to America's 700 million acres of public land—nearly one-third of the entire country. Focuses on the tensions between extractive uses such as mining and timbering on the one hand and conservation goals on the other. Substantial attention paid to the subject of water: the law and politics of who gets it and who does not. Prerequisite(s): PSC 101 or NRES 411. 3 credit(s)

**PSC 403B - Energy Politics and Policy**

Study of the impact of energy and its exploitation in political, economic, social, and ecological areas. Primary attention directed at coal, oil, natural gas, and nuclear power. In addition, such exotic energy sources as thermal, wind, fusion, and synthetic fuels considered. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 403C - Environmental Policy**

An overview of key elements of U.S. environmental policy. Includes an assessment of domestic environmental problems and related environmental legislation. Also focuses on issues of global sustainability and value questions that guide environmental policy-making. Prerequisite(s): PSC 231 3 credit(s)

**PSC 403F - U.S. Nuclear Policy: Weapons and Waste**

Examines the history and political consequences of the U.S. development of the atomic bomb. Traces events from 1939 to present, and addresses current problems of atomic litigation, nuclear waste disposal, and nuclear disarmament. Analyzes life in the shadow of the mushroom cloud. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 403I - National Security Policy**

Primarily focuses upon national defense. Covers such topics as the defense establishment, intelligence, strategic theory concepts, strategic weapons systems, war, and war prevention. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 403J - Political Ethics and Political Corruption**

Study of political ethics and corruption in the U.S. Attention given to the concepts themselves and to how they have evolved over time. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 403L - Morality Policy**

This course is intended to provide critical analyses of the legal, institutional, and behavioral issues underlying issues of public policy which involve questions of personal or social morality. The Politics of Church-state relations, abortion, capital punishment, gun control, obscenity and pornography, and gay rights will be considered. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 403Z - Special Topics in Public Policy**

Prerequisite(s): PSC 101. May be repeated to a maximum of six credits with different topics. 3 credit(s)

**PSC 405B - International Law and Organizations**

Formerly Listed as PSC 405D. International legal system, the United Nations, and other international organizations such as E.C.O.S.O.C. and W.H.O. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405C - Inter-American Relations**

Considers changing relationships among states in the Americas. Covers early interventionism by the U.S., the Cold War period, and the post-Cold War era. Topics include economic development programs, counterinsurgency assistance, immigration policy, the drug "war," the environment, and trade. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405DR - U.S. Foreign Policy**

Formerly Listed as PSC 342.

Theoretical and historical analysis of the formulation and implementation of American foreign policy. Topics include the institutionalization of the cold war, American adaptation to the post-cold war world, and current foreign policy issues facing the United States. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405E - Foreign Policy of the Major Powers**

Systematic and comparative study of the foreign policies of the major powers in light of the general world situation and the internal forces and problems of each country. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405J - The European Union**

Examines the evolution of economic and political integration and the potential future steps toward ever closer union. Institutions, actors, and policies of the European Union analyzed with an emphasis on democracy and tensions between domestic and European interests. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405K - International Relations of the Middle East and North Africa**

Develops a framework for the study of international relations of the Middle East and North Africa. Examines domestic, regional, and global determinants of external politics in this region; analyzes great powers' interests and policies; and studies intraregional problems. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405L - East Asia in World Politics**

Examines the complicated forces at work in international relations of East Asia. Analyzes foreign policies of the major world powers towards East Asia in the postwar era. Emphasis on the important bilateral relationships in the region. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405M - The Pacific Rim and World Politics**

Examines the Pacific Rim and analyzes the cultural, economic, political, and social issues in the region. Special emphasis on how cultural, ethnic, and religious diversities affect independence and interdependence of the region. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405N - Regional and International Relations of Latin America and the Caribbean**

Examination of the regional and international relations of Latin America and the Caribbean. Recent theories of IR, regional economic integration, human rights and democratization, and security issues. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405O - Model United Nations**

Examines and practices how the United Nations, the world's largest international organization, works. Studies the mandates and functions of various UN committees and special agencies. Equips students with the unique expertise to represent a country and adopt resolutions to solve global issues through the actual participation in Model UN conferences. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405P - Global Political Economy**

Formerly Listed as PSC 407S.

Politics of international economic relations. Major theories of international political economy are examined and applied to the study of colonialism, dependency, international trade, official development assistance, foreign direct investment, globalization, regional integration, labor, and the environment. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405Q - Global Ecopolitics**

Analysis of demographic, ecological, economic and technological security challenges emerging in an era of deepening globalization, including the challenges of population growth and graying, adequacy of world fuel reserves, challenges of global warming, and issues associated with the worldwide diffusion of new technologies. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405R - Africa in World Politics**

Examines Africa's place in world politics. Relationships between African countries and international organizations and countries of other world regions as well as relationships among African countries. Explores changing nature of Africa's state system and challenges confronting this system. Prerequisite(s): PSC 231. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 405S - U.S. Strategic Intelligence**

Overview of U.S. strategic intelligence, with emphasis on U.S. intelligence community and use of intelligence by policy- and decision-makers. Covers various types of intelligence, covert action, counterintelligence, congressional and judicial oversight, and issues related to intelligence and civil liberties. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405T - International Environmental Politics**

Formerly Listed as PSC 403D

Theories of international politics applied to global and regional environmental problems. Addresses the politics of how environmental problems are defined and identified by scientists and activists and the various political solutions proposed. Substantive topics include biodiversity, climate change, trade and the environment, sustainable development, environmental refugees, biosafety, and energy. Prerequisite(s): PSC 231 or ENV 205. 3 credit(s)

**PSC 405U - International Security**

This course will examine the economic, political, and social causes and conditions of conflict within and between states across the globe. The course will also utilize threats to international security in order to explore the different methods of preventing, managing, and settling issues of terrorism and war. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405V - International & U.S. Immigration Policy**

Exam of political and policy implications of international migration, focusing on the debates surrounding immigration to the U.S. and the international refugee crisis. Topics include political responses to immigration policy making, foreign policy/transnational initiatives, post- 9/11 national security policy making, bilingual education policies, affirmative action, and anti-poverty policy. Prerequisite(s): PSC 231. 3 credit(s)

**PSC 405W - New Issues in Foreign Policy**

Current and emerging situations in the foreign policy of countries, such as migration, environmental concerns, transnational crime, and domestic and foreign conflict. This course is part of the Brookings Public Policy minor. Prerequisites PSC 231. 3 credit(s)

**PSC 405Y - Global Economic Governance**

Examines the politics of governance in the global economy focusing on major actors, ideas, and social forces. Topics include theories of cooperation, governance of global institutions, and contemporary debates about reforming global institutions. Prerequisites PSC 231. 3 credit(s)

**PSC 405Z - Special Topics in International Relations and Foreign Policy**

Prerequisite(s): PSC 231. May be repeated to a maximum of six credits with different topics. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407A - Political Systems of West Europe**

Study of comparative politics by focusing on the histories, cultures, and political systems of Western Europe. Theory, foundations, institutional framework, and political and economic development of the European Community. Processes of building a European Union. Prerequisite(s): PSC 211. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407B - Political Systems of East Asia**

Examines the political development and governmental institutions of East Asia. Analyzes how the contemporary political systems in the region have evolved and how they work. Special emphasis on political culture and policy making. Prerequisite(s): PSC 211. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

**PSC 407C - Political Systems of Russia and East-Central Europe**

Examines the histories, cultures and functioning of political systems after the fall of communist regimes. Impact of the re-emergence of old values and attitudes. Processes of reintegration of the countries of the region into the European and world systems and structures. Prerequisite(s): PSC 211. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

**PSC 407D - Political Systems of the Middle East and North Africa**

Methodological and theoretical tools for the study of developing political systems. Provides students with an in-depth analysis of the political institutions, processes, and policies in the Muslim Middle East and North Africa. Prerequisite(s): PSC 211. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

**PSC 407E - Politics in Latin America**

In-depth study of political concepts and events in Latin America. Examines how politicians have used populism, corporatism, authoritarianism, and democracy to channel and repress political participation. Evaluates competing explanations of rise of military regimes. Considers challenges of democratization, such as building political institutions, political parties, and civic society. Prerequisite(s): PSC 211. Note(s): Satisfies International and Foreign Culture Requirement. 3 credit(s)

**PSC 407G - Communist Political Systems**

Ideology of Marxism-Leninism in different historical, cultural, and geographic settings. Compares and contrasts the setting, rise to power, consolidation, and functioning of former and present communist political systems. Prerequisite(s): PSC 211. 3 credit(s)

**PSC 407I - Politics and Problems in Developing Areas**

Explores how developing areas, or Third World, constitute a major portion of the world's population while sharing in a much smaller fraction of its wealth and productivity. Role of the political process in the attempt of a formerly traditional society to come to terms with modernity and better the lot of its citizens. Relationship between politics and the economic and social dimensions of the development. Prerequisite(s): PSC 211. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407K - Comparative Religion and Politics**

Various roles played by religious leaders and believers in a variety of national and international systems. Importance of religious markets in particular settings, the role of religion as a source of regime legitimacy or opposition, and the importance of religious doctrine. Prerequisite(s): PSC 211. 3 credit(s)

**PSC 407M - The Mexican Revolution**

Study of the origins, major events and personalities, and aftermath of the Mexican Revolution of 1910, tracing Mexico's political development to modern times. Prerequisite(s): PSC 211 Note(s): Same as HIST 476. 3 credit(s)

**PSC 407N - Revolution and Reaction in Contemporary Latin America**

Study of major political movements, leaders, and trends in Latin America from the Cuban Revolution to the present. Prerequisite(s): PSC 211. Note(s): Same as HIST 471. 3 credit(s)

**PSC 407O - Islamic Politics**

Examines classical and contemporary Islamic political thought and the impacts of Islam on present institutions and practices in Muslim societies. Prerequisite(s): PSC 211. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407Q - Political Violence and Terrorism**

Origins, development, and consequences of political violence on both the domestic and international level. Problems of revolution, war, and terrorism as the means used for the achievement of political goals examined. Prerequisite(s): PSC 211. 3 credit(s)



**PSC 407SR - Comparative Public Policy in Democracies**

Examination of institutions, practices, and issues relating to the implementation of public policy in a variety of advanced democracies. Prerequisite(s) PSC 211. 3 credit(s)

**PSC 407T - The Politics of Sub-Saharan Africa**

Explores the nature of political development in the states of sub-Saharan Africa. Examines historical, economic and social forces that have shaped political change and conflict in Africa. Special attention to democratization process in Africa. Prerequisite(s): PSC 211. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407U - Democratization**

Focuses on democratization. Explores how countries transition to democracy. Process by which democracy becomes consolidated. Assesses the state of and prospects for the consolidation of democracy in the world today. Prerequisite(s): PSC 211. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 407W - Politics Of Catholicism**

Provides an understanding of the political role played by the Catholic Church in a variety of national, regional, and international settings. A major theme of the course will be the interaction of "objective" moral truth (as defined by the Holy See) and the politics of diverse local and national contexts. Prerequisite(s): PSC 211. 3 credit(s)

**PSC 407Z - Special Topics in Comparative Politics**

Prerequisite(s): PSC 211. May be repeated to a maximum of six credits with different topics. Note(s): (Satisfies International and Foreign Culture Requirement.) 3 credit(s)

**PSC 409C - American Political Thought**

Critical study of the major thinkers and writings from the colonial period to the present, such as The Federalist Papers and Tocqueville, that contribute to an understanding of American political principles. Prerequisite(s): PSC 200. Note(s): (Satisfies the United States Constitution Requirement.) 3 credit(s)

**PSC 409E - Political Theory and Political Education**

Theoretical analysis of education as a problem and function of political life. Particular attention paid to the relationships between education, the liberal arts, citizenship, and civic virtue. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 409H - The Problem of Socrates**

Plato's Socrates, the various dimensions of his way of life. Also ancient and modern critiques of Socrates from Aristophanes' Clouds to Socrates' place in the philosophies of Hegel, Kierkegaard, and Nietzsche. Concludes with Kierkegaard's contrast between Socrates and Christ, and with Nietzsche's contrast between Socrates and Dionysus. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 409I - Marx and Marxism**

Critical study of the political theories of Karl Marx, Friedrich Engels, and selected theorists in the Marxist tradition. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 409J - Feminist Political Theory**

Important schools of feminist thought studied: liberal feminism, Marxist feminism, radical feminism, ecofeminism, psychoanalytic feminism, gender feminism, existentialist feminism, postmodern feminism, and multicultural and global feminism. Studies thinkers who provide feminism with its philosophical foundations. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 409L - Medieval Political Theory**

Critical study of the major political thinkers and main currents in political thought from the rise of Christianity to the Renaissance. Prerequisite(s): PSC 200. 3 credit(s)

**PSC 409Z - Special Topics in Political Theory**

Prerequisite(s): PSC 200. May be repeated to a maximum of six credits with different topics. 3 credit(s)

**PSC 411A - Constitutional Law: The First Amendment**

Case approach to constitutional problems in the First Amendment. Topics covered include speech, press, association, and free exercise and establishment of religion. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 411B - Constitutional Law: Civil Rights**

Case approach to civil rights issues including discrimination based on race, sex, sexual orientation, and other factors; affirmative action; and issues of voting and representation rights. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 411C - Legal Theory**

Analysis of the concept of law, with special emphasis upon the nature of law, sovereignty, legal validity, the relations between law, politics, morality, and economics. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 411D - Constitutional Rights of Women**

Case approach to legal issues concerning abortion, contraception, sterilization, penalties of pregnancy, voting, access to professions, equal pay, and various forms of political, economic, and social discrimination. Key constitutional provisions considered include judicial review, due process, equal protection, privileges and immunities, and the right to privacy. Prerequisite(s): PSC 101. Note(s): (Satisfies Multicultural Requirement.) 3 credit(s)

**PSC 411E - Constitutional Rights of the Accused**

Analysis of the legal rights of the accused in the context of the American legal system and political process. Emphasizes constitutional issues involved as well as special problems posed by political conflicts. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 411F - Constitutional Theory**

Examines the different approaches to the interpretation of the U.S. Constitution including interpretivism, non-interpretivism, intentionalism, originalism, plain words, strict, and broad construction. Prerequisite(s): PSC 330 or PSC 411A or PSC 411C or PSC 411D. 3 credit(s)

**PSC 411H - Comparative Law**

Examination of concepts, methods, and contemporary issues in comparative law. Comparatively analyzes the origins, processes, structures, and codes in the British, French, German, American, Judaic, and Islamic legal systems and traditions. Prerequisite(s): PSC 211. 3 credit(s)

**PSC 411I - Supreme Court and Capitalism**

A cases and materials approach to the role of the United States Supreme Court in cases dealing with the economy. Cases arising mainly out of the Commerce, General Welfare, Taxing and Spending, Contracts, Due Process and Takings clauses will be covered. Prerequisite(s): PSC 101. 3 credit(s)

**PSC 411Z - Special Topics in Public Law**

Prerequisite(s): PSC 101. May be repeated to a maximum of six credits with different topics. 3 credit(s)

**PSC 480A - Independent Study and Research in Political Science**

Program of independent reading and research in political science, to be selected in consultation with an instructor before registration. Prerequisite(s): PSC 101 and PSC 200 or PSC 211 or PSC 231 and junior or senior standing. May be repeated to a maximum of six credits. 1-3 credit(s)

**PSC 490A - Internship: Administrative**

Students serve for a semester in a public agency and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty. Prerequisite(s): PSC 101 and junior or senior standing. May be repeated for a maximum of six credits. 1-6 credit(s)

**PSC 490B - Internship: Legislative**

Students serve for a semester in a legislature and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty. Prerequisite(s): PSC 101 and junior or senior standing. May be repeated for a maximum of six credits. 1-6 credit(s)



**PSC 490C - Internship: Campaign**

Students serve for a semester on a campaign and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty. Prerequisite(s): PSC 101 and junior or senior standing. May be repeated for a maximum of six credits. 1-6 credit(s)

**PSC 490D - Internship: Legal**

Students serve for a semester in a law office and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty. Prerequisite(s): PSC 101 and junior or senior standing. May be repeated for a maximum of six credits. 1-6 credit(s)

**PSC 490E - Internship: Political News Broadcast**

Students serve for a semester with a television or radio station and make regular reports on work activities and assigned readings. Students earn credit for service learning under the supervision of agency personnel and university faculty. Prerequisite(s): PSC 101 and junior or senior standing. May be repeated for a maximum of six credits. 1-6 credit(s)

# Psychology

***Purpose and Focus***

The Department of Psychology undergraduate curriculum provides a broad and balanced treatment of psychology. Upon completion of this course of study, students will have received upper-division instruction in at least five of the many sub areas of psychology. Thus, they will have knowledge of the diversity of ideas and activities that constitute the field. This curriculum is designed to meet the needs of both those students seeking a liberal arts undergraduate degree and those intending to enter advanced training in psychology, education, medicine, or related fields.

***Degree Objectives/Learning Outcomes***

The Psychology degree objectives are:

1. Students should have an overview of the discipline of the psychological science.
2. Students should understand the basic statistics that are used to analyze psychological data.
3. Students should understand the methods of inquiry used in psychological science.
4. Students should be able to present their knowledge to relevant parties through clear written and verbal communication.
5. Students should have in-depth understanding of the research in the major topics of study in psychological science.

***Accreditation***

Northwest Commission on Colleges and Universities

***Undergraduate Major***

Psychology

***Advisement***

Students are strongly encouraged to complete PSY 101 and PSY 200 as early as possible. PSY 101 will provide students a broad overview of the field of psychology, and PSY 200 will explain to students what they will learn as a psychology major, including possible career opportunities in psychology. In addition to these two courses, students are strongly encouraged to take PSY 210 and PSY 240 early because these courses provide a foundation for understanding psychological research and serve as prerequisites for many other courses in the major. Students wishing to pursue graduate training in psychology are encouraged to obtain research experiences by working in a faculty member's research laboratory (e.g., PSY 496, PSY 497, and PSY 498). For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Majors should consult a faculty advisor in the department for career advising and for more specialized academic advising.

**Psychology Major- Bachelor of Arts (BA)**

Please see the UNLV College of Liberal Arts, Psychology Department web page at [psychology.unlv.edu/](http://psychology.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Wilson Advising Center at [www.liberalarts.unlv.edu/WAC/](http://www.liberalarts.unlv.edu/WAC/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
www.nwccu.org

## Learning Outcomes

1. Have an overview of the discipline of psychological science;
2. Understand the basic statistics that are used to analyze psychological data;
3. Understand the methods of inquiry used in psychological science;
4. Be able to present their knowledge to relevant parties through clear written and verbal communication;
5. Have in-depth understanding of the research in the major topics of study in psychological science.

## University Graduation Requirements

- Please see Graduation Policies for complete information.

Psychology Degree Requirements.....Total: 120 Credits

General Education Requirements..... Subtotal: 36-38 Credits

First-Year Seminar ..... Credits: 3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - PHIL 101 - Introduction to Philosophy
  - 3 additional humanities credits outside of philosophy
  - One course in fine arts- 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - Two courses from Life and Physical Science
- One of which must include either:
- BIOL 100 - General Biology for Non-Majors
- BIOL 189 - Fundamentals of Life Science
  - Analytical Thinking
- PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

Major Requirements - BA in Psychology .....Subtotal: 54 Credits  
(see note 1 below)

Social Science..... Credits: 9

- SOC 101 - Principles of Sociology
  - ANTH 101 - Introduction to Cultural Anthropology
- and 3 additional social science credits from a different field.

Fine Arts ..... Credits: 3

Foreign Culture/Foreign Language ..... Credits: 6

Psychology Major Requirements..... Credits: 36  
(see note 2 below)

- PSY 101 - General Psychology
- PSY 200 - Introduction to the Psychology Major
- PSY 210 - Introduction to Statistical Methods

- PSY 240 - Research Methods

Five of the six core courses

- PSY 303 - Foundations of Physiological Psychology
- PSY 305 - Foundations of Perception
- PSY 316 - Foundations of Cognitive Psychology
- PSY 330 - Foundations of Developmental Psychology: Infant and Child

or

- PSY 334 - Foundations of Developmental Psychology: Adolescence and Adulthood
- PSY 341 - Foundations of Abnormal Psychology
- PSY 360 - Foundations of Social Psychology

Psychology ElectivesCredits: 10 (must be upper division: 300-400)

Electives.....Total Credits: 28-30

Total Credits: ..... 120

## Notes

1. No more than 11 of the 36 required credits in the required psychology courses may be lower division (100-200). All psychology course work must be completed with a grade of C- or higher.
2. The technology requirement will be satisfied through the completion of required courses, PSY 210 and 240.

## Neuroscience Minor

Neuroscience is a scientific discipline that investigates the organization, development, and function of the nervous system. This research focuses on topics ranging from mechanisms responsible for basic neuronal function to investigations of behavior and neurological/psychiatric disorders. The courses are designed to give students a strong foundational and broad exposure to the neuroscience area.

Neuroscience Minor ..... Total Credits: 19

Required Courses..... Credits: 7

No course in which a grade of C- or lower is earned may be applied to this minor.

- PSY 303 - Foundations of Physiological Psychology
- BIOL 196 - Principles of Modern Biology I

Electives (choose 12 credits from the following courses)

- PSY 305 - Foundations of Perception
- PSY 422 - Psychopharmacology of Abused Drugs
- PSY 424 - Neurobiology of Learning and Memory
- PSY 425 - Cognitive Neuroscience
- PSY 428 - Cellular and Molecular Approaches to Behavior
- BIOL 304 - Molecular Genetics
- BIOL 445 - Cell Physiology
- BIOL 475 - Neurobiology

## Psychology Minor

Courses Include ..... Total Credits: 22

PSY 101 - General Psychology

PSY 210 - Introduction to Statistical Methods

PSY 240 - Research Methods

and 12 upper-division (300-400 level) credits in psychology.

## **Psychology**

### **PSY 101 - General Psychology**

Introduction to psychology including introductory treatment of sensation-perception-cognition, physiological psychology, learning, personality, development, social psychology, assessment, and history. 3 credit(s)

### **PSY 102 - Psychology of Personal and Social Adjustment**

Introduction to the problems of human adjustment. Intended as a practical course to teach students to apply psychological principles to everyday problems of individual and group living. 3 credit(s)

### **PSY 200 - Introduction to the Psychology Major**

An introduction to the psychology major, including an overview of topics in psychology, careers in psychology, and preparation for advanced study such as graduate school. Prerequisite(s): PSY 101. Note(s): S/F grading only. 1 credit(s)

### **PSY 201 - Development Across the Lifespan**

Overview of developmental psychology from a lifespan perspective, including physical, mental, social and emotional changes at all stages of life from conception to death. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 210 - Introduction to Statistical Methods**

Study and practice with statistical methods especially useful in the presentation and interpretation of psychological data. Prerequisite(s): PSY 101 and MATH 96, MATH 124, or MATH 126 or satisfactory placement on the mathematics pretest. 4 credit(s)

### **PSY 240 - Research Methods**

Critical examination of research methods in psychology, including experimental and quasi-experimental designs, correlational methods, clinical research techniques, natural observation, survey methods, and the phenomenological approach. Prerequisite(s): PSY 101 and PSY 210. 3 credit(s)

### **PSY 263 - Chicano/Latino Psychology**

Formerly Listed as PSY 233.

Examines the current psychological research and literature on the cultural, societal, historical, and political influences on the psychological well-being and characteristics of Chicanos/Latinos. Contextual issues include world views, values, beliefs, minority status, and the immigration experience. Prerequisite(s): ENG 101. 3 credit(s)

### **PSY 264 - African American Psychology**

F(Same as AAS 264) Examines current psychological research and literature on the cultural, societal, historical, and political influences on the psychological well-being and characteristics of African Americans. Contextual issues include world views, values, beliefs, minority status, slavery, and oppression. Prerequisite(s): ENG 101. Note(s): Same as AAS 264. 3 credit(s)

### **PSY 299 - Special Topics**

Exploration of special topics of current interest. May be repeated to a maximum of six credits. 1-6 credit(s)

### **PSY 303 - Foundations of Physiological Psychology**

Formerly Listed as PSY 403.

Introduction to the study of biological bases of behavior. The course covers the physiological mechanisms and behavior of complex organisms. Topics include sensory processes, sleep, learning, memory, and neurological disorders. Prerequisite(s): PSY 101 and either BIOL 100 or BIOL 189. 3 credit(s)

### **PSY 305 - Foundations of Perception**

Formerly Listed as PSY 405.

An introduction to the study of psychophysics, sensory systems, and perceptual phenomena and theories. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 316 - Foundations of Cognitive Psychology**

Formerly Listed as PSY 416.

An introduction to the theories and concepts of cognitive psychology, including attention, pattern recognition, memory, and language. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 330 - Foundations of Developmental Psychology: Infant & Child**

Formerly Listed as PSY 430.

An introduction to the study of human development from conception to middle childhood. Topics include physical, cognitive, and social/emotional development. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 341 - Foundations of Abnormal Psychology**

Formerly Listed as PSY 441.

An introduction to the psychology of abnormal behavior stressing symptomatology, etiology, dynamics, and problems in diagnosis. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 360 - Foundations of Social Psychology**

Formerly Listed as PSY 460.

An introduction to social and group factors affecting individual behavior. Topics include social perception, opinions, attitudes, influence processes, and small group behavior. Prerequisite(s): PSY 101. 3 credit(s)

### **PSY 406 - Intermediate Statistics**

Theory and application of parametric and non-parametric statistical inference, including special correlation methods. Prerequisite(s): PSY 210 and PSY 240. Note(s): This course is crosslisted with PSY 606. Credit at the 600-level requires additional work. 3 credit(s)

### **PSY 408 - History of Psychology**

Study of the history of psychology. Prerequisite(s): PSY 210 and PSY 240. Note(s): Study of the history of psychology. This course is crosslisted with PSY 682. Credit at the 600-level requires additional work. 3 credit(s)

### **PSY 412 - Motivation and Emotion**

Study of motivation and emotions in humans and animals, including arousal theories, reinforcement, and the physiological and cognitive bases of motivation and emotion. Prerequisite(s): PSY 210, PSY 240 and PSY 360. 3 credit(s)

### **PSY 414 - Principles of Animal Behavior**

Derivation of general principles of behavior from a comparative and evolutionary study of species. Prerequisite(s): PSY 210, PSY 240 and PSY 303. 3 credit(s)

### **PSY 417 - Psycholinguistics**

Examination of speech perception and language acquisition. Prerequisite(s): PSY 210, PSY 240 and PSY 316. 3 credit(s)

### **PSY 418 - Applied Cognition**

Overview of basic research issues in cognitive psychology and how this research applies to the solution of real-world problems. Topics include attention, pattern recognition, memory, language, problem solving, expertise, human-technology interaction, individual differences, and cognitive errors. Prerequisite(s): PSY 210, PSY 240 and PSY 316. 3 credit(s)

### **PSY 420 - Psychology of Learning**

Analysis of the principles, theories, and phenomena of learning. Prerequisite(s): PSY 210, PSY 240 and PSY 316. Note(s): This course is crosslisted with PSY 620. Credit at the 600-level requires additional work. 3 credit(s)

### **PSY 421 - Behavior Modification**

Examination of the principles, techniques, and applications of the behavior change process. Prerequisite(s): PSY 210, PSY 240 and PSY 341. 3 credit(s)

### **PSY 422 - Psychopharmacology of Abused Drugs**

Effects of abused drugs on the nervous system and behavior. After a study of the principles of neurotransmission, the general pharmacodynamic actions of drugs reviewed. Psychological effects of those drugs most commonly abused in contemporary society studied in detail. Prerequisite(s): PSY 210, PSY 240 and PSY 303. 3 credit(s)

### **PSY 423 - Language Development**

Overview of the concepts, theories, and research on child language development. Prerequisites PSY 210, PSY 240, and (PSY 316 or PSY 330). 3 credit(s)

**PSY 432 - Human Memory**

A study of the concepts, theories, and research in human memory. Prerequisite(s): PSY 210, PSY 240 and PSY 316. 3 credit(s)

**PSY 433 - Culture and Personality**

Theories of the relationship between the psychological characteristics of the individual and the demands of the cultural milieu, the nature of human psychological plasticity, cultural forces operant in the formation of personality, and cross-cultural studies of personality. Prerequisite(s): PSY 210, PSY 240 and either PSY 341 or PSY 360. 3 credit(s)

**PSY 434 - Developmental Psychology: Adolescence and Adulthood**

Study of human development from adolescence through adulthood. Prerequisite(s): PSY 210, PSY 240 and PSY 330. 3 credit(s)

**PSY 435 - Personality**

Study of personality as a psychological construct with emphasis on its structure, development, and measurement. Prerequisite(s): PSY 210, PSY 240 and either PSY 341 or PSY 360. 3 credit(s)

**PSY 437 - Humanistic Psychology**

Study of the human potential movement, models of psychological health, and the psychologist as a participant-observer, emphasizing the contributions of existentialism, phenomenology, and the romantic movement in literature to psychology. Prerequisite(s): PSY 210 and PSY 240. 3 credit(s)

**PSY 438 - Childhood Behavior Disorders**

Overview of primary psychological disorders of childhood and adolescence, including fear/anxiety, depression, hyperactivity, delinquency, and eating, elimination, and sleep disorders. Topics include epidemiology, etiology, assessment, and treatment. Related problems such as child abuse, divorce, and medical conditions discussed. Prerequisite(s): PSY 210, PSY 240 and either PSY 330 or PSY 341. 3 credit(s)

**PSY 442 - Psychology of Aging**

Exploration of the changes that occur in late adulthood. Areas of study include physiology, sensory and cognitive processes, personality, psychopathology, and death and dying. Prerequisite(s): PSY 210, PSY 240 and PSY 330. 3 credit(s)

**PSY 450 - Industrial and Organizational Psychology**

Application of psychology within government, business, and industry. Areas presented include personnel management, morale, organizational behavior, and human engineering. Prerequisite(s): PSY 101. 3 credit(s)

**PSY 451 - Basic Principles of Psychotherapy**

Study of theories and approaches to counseling and psychotherapy. Prerequisite(s): PSY 101, PSY 210, PSY 240 and PSY 341. 3 credit(s)

**PSY 464 - Group Process and Personal Growth**

Theoretical and experiential treatment of self awareness, self-other interactions, and group process. Prerequisite(s): PSY 101, PSY 210, PSY 240 and PSY 360. 3 credit(s)

**PSY 465 - Small Group Behavior**

Interdisciplinary study of the processes of influence, communication, and leadership in small groups. Prerequisite(s): PSY 101, PSY 210, PSY 240 and PSY 360. 3 credit(s)

**PSY 466 - Psychology of Sex**

Psychological, physiological, and comparative study of sexual behavior. Prerequisite(s): PSY 101, PSY 210 and PSY 240. 3 credit(s)

**PSY 467 - Psychology of Gender**

Examination of gender - the "social role" of being male or female and the effects it has on people as individuals and as a society. Prerequisite(s): PSY 101, PSY 210, PSY 240 and PSY 360. Note(s): Same as WMST 467. 3 credit(s)

**PSY 469 - Psychology and the Legal System**

Overview of the application of psychology to the criminal and civil justice systems and introduction to relevant case law. Topics include police psychology, eyewitness accuracy, jury decision-making, competency to stand trial, criminal responsibility, civil commitment, violence risk assessment, correctional psychology, and juvenile justice. Prerequisite(s): PSY 240 or CRJ 130 and CRJ 301. Note(s): Same as CRJ 469. 3 credit(s)

**PSY 470 - Health Psychology**

Overview of science and clinical practice of health psychology: promotion of health, treatment of illness, and psychosocial correlates of health and illness. Prerequisite(s): PSY 101, PSY 210 and PSY 240. 3 credit(s)

**PSY 481 - Principles of Psychological Assessment**

Theory, construction, and application of standard psychological tests. Prerequisite(s): PSY 101, PSY 210 and PSY 240. 3 credit(s)

**PSY 495 - Seminar**

Explores a specific aspect of the advanced study of psychology. Students have a major responsibility for selection and presentation of topics. Prerequisite(s): PSY 101, PSY 210, and PSY 240. May be repeated to a maximum of six credits. 1-6 credit(s)

**PSY 496 - Advanced Independent Study**

Individual reading projects under the direction of a faculty member. Prerequisite(s): Permission of instructor. May be repeated to a maximum of six credits. Note(s): Department approval must be obtained prior to registration. 1-6 credit(s)

**PSY 497 - Supervised Field Experience**

Individual field experience under the supervision of a faculty member. Prerequisite(s): PSY 101. May be repeated to a maximum of five credits. Note(s): Department approval must be obtained prior to registration. Credits (1-5)

**PSY 498 - Advanced Independent Research**

Individual research projects under the direction of a faculty member. Prerequisite(s): PSY 101. May be repeated to a maximum of six credits. Note(s): Department approval must be obtained prior to registration. 1-6 credit(s)

**PSY 499 - Advanced Special Topics**

Exploration of special topics in psychology. Prerequisite(s): PSY 101, PSY 210, and PSY 240. May be repeated to a maximum of six credits. 1-6 credit(s)



# Sociology

## **Purpose and Focus**

The UNLV Department of Sociology combines innovative research with teaching and community service to address questions of social change, diversity, social justice, and sustainability in urban environments. Our research and teaching emphasize civic engagement and provides students with skills necessary for personal intellectual growth, active citizenship, and professional success. A UNLV Sociology degree helps students develop skills for success in a wide range of fields such as education, social services, law, politics, urban planning, business management, marketing, and social research analysis. The department also trains majors in the primary skills and knowledge required for successful graduate study in Sociology.

## **Degree Objectives/Learning Outcomes**

1. Understanding sociology's key concepts, debates, and trends and how these contribute to our understanding of social reality. Such concepts include: culture, social change, socialization, stratification, social structure, institutions, and differentiations by race/ethnicity, gender, age, and class.
2. Comprehending major sociological paradigms and theories, the historical-cultural contexts in which they were developed, and their role in building sociological knowledge.
3. Understanding sociological research methods, including the role of evidence and qualitative and quantitative methods in sociology, research design, data gathering, and data analysis.
4. Developing a sociological imagination to apply sociological knowledge, concepts and critical thinking to students' own projects, whether intellectual, personal, or political.
5. Developing skills in critical analytical thinking and confidence to express ideas orally and in writing.

## **Accreditation**

Northwest Commission on Colleges and Universities

## **Undergraduate Major**

Sociology

## **Academic Policies**

Sociology majors and minors must earn a grade of C- in every required major and minor course to remain in good standing (i.e., SOC 101 or SOC 102, SOC 403, SOC 404, SOC 421, SOC 422, and SOC 101 or SOC 102, SOC 403, and SOC 421, respectively). Fifty percent of the total required credits in the Sociology major and minor must be completed at UNLV.

## **Advisement**

For academic advising, students should contact the College of Liberal Arts Wilson Advising Center. Students may also contact the Department of Sociology Undergraduate Director to discuss additional academic and career issues.

## **Department of Sociology Major - Bachelor of Arts (BA)**

Please see the UNLV Department of Sociology web page at [www.unlv.edu/sociology/admissions](http://www.unlv.edu/sociology/admissions) for information about department programs, faculty, and facilities.

Please see advising information at the UNLV Department of Sociology Undergraduate Advising at [liberalarts.unlv.edu/WAC/](http://liberalarts.unlv.edu/WAC/)

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Learning Outcomes**

The sociology graduate will have knowledge of:

1. the key concepts, debates, and trends in sociology
2. the major sociological paradigms and theories
3. the variety of methods used in sociological research

Sociology students will be able to:

4. Show evidence of the development of a sociological imagination by applying sociological knowledge in their own projects—whether intellectual, personal, and/or political.
5. Exhibit confidence in expressing ideas orally and in writing.

## **University Graduation Requirements**

- Please see Graduation Policies for complete information

Sociology Degree Requirements .....	Total: 120 Credits
General Education Requirements .....	Subtotal: 36-38 Credits
First-Year Seminar .....	Credits: 2-3
English Composition .....	Credits: 6
• ENG 101 - Composition I	
• ENG 102 - Composition II	
Second-Year Seminar .....	Credits: 3
Constitutions .....	Credits: 4
Mathematics .....	Credits: 3
Distribution Requirement: .....	Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities
  - One 3-credit course in fine arts.
- Social Science
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - Two courses from life and physical sciences category; at least one must have a lab.
  - Analytical Thinking - 3 credits
  - PHIL 102 - Critical Thinking and Reasoning

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

Major Requirements - BA in Sociology ..... Subtotal: 82-84 Credits (see note 1 and 2 below)

Social Science .....	Credits: 9
Fine Arts .....	Credits: 3
Foreign Language/Foreign Culture .....	Credits: 6

Sociology students are required to complete 6 courses:

Sociology Major Requirements ..... Total Credits: 20

- SOC 101 - Principles of Sociology

or

- SOC 102 - Contemporary Social Issues and

- SOC 403 - Techniques of Social Research
- SOC 404 - Statistical Methods in the Social Sciences
- SOC 421 - Classical Social Theory
- SOC 422 - Modern Sociological Theory
- SOC 496 - Capstone in Sociology

Related Areas ..... Credits: 26-28

Additional credits related to the student's academic or vocational career interests, as approved by the Department of Sociology.

Electives..... Credits: 18

18 additional credits of SOC electives selected in consultation with an advisor.

Total Credits: ..... 120

## Notes

1. Unless otherwise specified, either SOC 101 or SOC 102 serves as a prerequisite for all other sociology courses at the 200-, 300-, or 400- level.
2. See the department or the Wilson Advising Center for a list of courses that meet the College of Liberal Arts and the University curriculum requirements.

## Sociology Minor

Courses Include ..... Total Credits: 19

- SOC 101 - Principles of Sociology
- or
- SOC 102 - Contemporary Social Issues
  - SOC 403 - Techniques of Social Research
- and

- SOC 421 - Classical Social Theory

as well as nine additional credits of SOC courses. Six of these remaining nine credits must be taken at the 400 level. Selection of these courses should be done in consultation with a department advisor.

## Sociology

### SOC 101 - Principles of Sociology

Introduction to understanding human behavior, social life, and social change through the perspective of sociology. 3 credit(s)

### SOC 102 - Contemporary Social Issues

Designed to explore competing explanations for the causes of and cures for the enduring social issues and problems in the contemporary world. Critically analyzes dominant definitions of social problems, the political, economic, and cultural roots of these problems, and the public policies aimed at reducing them. 3 credit(s)

### SOC 205 - Ethnic Groups in Contemporary Societies

Examination of the experiences and social context of varying racial and ethnic groups within the United States. Examples of groups often included are African Americans, Korean Americans, Mexican American, Native Americans, Cuban Americans, and Irish Americans. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement 3 credit(s)

### SOC 210 - Introduction to Statistical Methods

Introduction to statistical reasoning; creating measures at levels; description of samples and comparisons to populations; making statistical decisions; applying statistical models. 4 credit(s)

### SOC 241 - Introduction to Research Methods

Research methods in sociology: how to ask sociological questions, how to think methodologically, and how to devise methods to study social phenomena. Review the basic foundations of social sciences thinking, and the four main research methods used by sociologists. 3 credit(s)

### SOC 261 - Introduction to Social Psychology

General survey of social psychology from a sociological perspective. Topics examined include socialization, language and communication, primary group processes, identity and self, attitudes, conformity and deviance, leadership, and the effects of social structure on individual behavior. Prerequisite(s): SOC 101 or PSY 101. 3 credit(s)

### SOC 275 - Introduction to Marriage and Family

Critically examines the institutions of marriage and family. Addresses issues such as alternative life choices and family violence in the context of social, economic, and political factors. Note(s): Same as WMST 275. 3 credit(s)

### SOC 276 - Aging in Modern American Society

Various demographic, social, economic, psychological, health, and policy related issues of aging with a focus on American society and a comparative focus on aging in the United States versus other societies. 3 credit(s)

### SOC 305 - Field Work in Sociology

Planning and execution of research activity. Includes field work, social history, document analysis, surveys, and other techniques. Students select a research problem and research site. Prerequisite(s): SOC 403 or equivalent. 4 credit(s)

### SOC 306 - Field Work in Sociology

Planning and execution of research activity. Includes field work, social history, document analysis, surveys, and other techniques. Students select a research problem and research site. Prerequisite(s): SOC 403 or equivalent. 4 credit(s)

### SOC 356 - Theories of Culture

Study of the nature of culture norms, with reference to art, language, communication, religion, science, etc. Examination of the theoretical underpinnings of the study of culture in the humanities, the social sciences, and in cultural studies. Prerequisite(s): Upper-division standing. Note(s): Same as PHIL 356. 3 credit(s)

### SOC 370 - Sociology of Subcultures

Examination of the experiences and social context of varying alternative lifestyles within the United States. Examples of topics often included are same-sex relationships, drug subcultures, youth gangs, and the homeless. 3 credit(s)

### SOC 390 - Internship in Sociology

Designed to acquaint students with the everyday practicalities of applied sociology. Internship allows students to interact in a work setting. Prerequisite(s): Upper-division standing, and consent of instructor. May be repeated to a maximum of six credits. 1-6 credit(s)

### SOC 397 - Independent Study

Consultation course consisting of independent student effort under guidance of the instructor. Students assigned to, or request assignment to, specific problems in sociology on the basis of interest and preparation. Prerequisite(s): Nine credits in sociology and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

### SOC 399 - Colloquium

Special topics in sociology such as addictions, gender, demography, disabilities, social inequality, and family. Topics covered for a particular semester focus on specific aspects of subject area. May be repeated to a maximum of nine credits (contingent on enrollment in different seminar topics). 3 credit(s)

### SOC 400 - Senior Thesis in Cultural Studies

Required senior thesis for cultural studies majors. Prerequisite(s): Senior standing, and consent of instructor/advisor. 3 credit(s)

### SOC 402 - Sociology and Literature

Examination of selected ideas, concepts, and theories through use of fictional literature. Various topics include human alienation, social stratification, bureaucracy, prejudice, immigration, and deviance. Note(s): This course is crosslisted with SOC 602. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 403 - Techniques of Social Research**

Introduction to research design, data gathering techniques, and sociological analysis of data. Note(s): This course is crosslisted with SOC 603. Credit at the 600-level requires additional work. 4 credit(s)

**SOC 404 - Statistical Methods in the Social Sciences**

Study and practice with statistical methods especially useful in the presentation and interpretation of social work, psychological, sociological, and educational data. Prerequisite(s): SOC 403. Note(s): This course is crosslisted with SOC 604. Credit at the 600-level requires additional work. 4 credit(s)

**SOC 407 - Environment and Society**

(Same as ENV 407.) Focuses on the conflict between private rights and the public interest and the extent to which this conflict affects society in the environmental arena. Note(s): Same as ENV 407. This course is crosslisted with SOC 607. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 408 - Qualitative Research**

Examination of the modes of observation, recording and reporting of the daily way of life of another (sub) culture studied by physical and perspectival closeness. Note(s): This course is crosslisted with SOC 608. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 410 - Sociology of Aging**

Explores the problems of aging in various cultures. Notions such as the social construction of growing old, the myth of youth, and the crisis of retirement discussed along with other topics of aging. Prerequisite(s): SOC 101 or SOC 102 Note(s): Satisfies Multicultural and Social Science Requirement This course is crosslisted with SOC 610\*. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 411 - Films and Society**

Understanding diversity and change in film themes and characterizations from the perspective of sociology. Specific topics vary from year to year and may investigate such things as "The Image of the American Hero," "Films as Social Protest," or "Science Fiction and Social Change." Emphasis on the American film. 3 credit(s)

**SOC 412 - Sociology of Art**

Investigation into the complex relationship between social systems and their artistic outputs. Emphasis on social theory, especially the sociology of knowledge. Subjects include artistic employment, craft to art conversions, and art in relation to religion and science. Note(s): This course is crosslisted with SOC 612. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 413 - Sociology of Sport**

Examination of the relationship of sport to societal institutions and processes. Behavior of fans, athletes, and sport organizations analyzed from a sociological view. Note(s): This course is crosslisted with SOC 613. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 414 - Popular Culture**

Different types of culture, the democratization of values, the organization of tastes. Characteristic forms of popular culture: music, cinema, the electronic media, the print media, outdoors, travel, and the graphic arts. 3 credit(s)

**SOC 415 - World Population Problems**

Examination of world and U.S. problems connected to rapid population growth, legal and illegal immigration, causes of sickness and death, and the impact of government population policies. Problems include changes in family size, mandatory sterilization, abortion, food as a political weapon, crime, and minority groups. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies International and Social Science Requirement. This course is crosslisted with SOC 615. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 416 - Sociology of Work and Occupations**

Comparative examination of work in industrial society. Topics analyzed include labor markets, job satisfaction, occupational choice, and the leisure-work relationship. Note(s): This course is crosslisted with SOC 616. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 417 - Sociology of Leisure Leisure in the United States and other societies.**

Leisure and work, family, education and religion. Leisure and quality of life, high culture, mass culture, and the leisure society. Note(s): This course is crosslisted with SOC 617. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 418 - Television and Society**

Critical examination of the role of television in contemporary society. Focuses on empirical analysis of controversies including effects on cultural values, societal stereotypes, and news. Prerequisite(s): SOC 101 or SOC 102. 3 credit(s)

**SOC 421 - Classical Social Theory**

Major social theorists of the nineteenth and early twentieth centuries whose works have led to the development of sociology as a distinct discipline. Includes Durkheim, Marx, Simmel, and Weber. Note(s): This course is crosslisted with SOC 621. Credit at the 600-level requires additional work 3 credit(s)

**SOC 422 - Modern Sociological Theory**

Major theorists and important schools of thought in contemporary sociology. Includes some or all of the following: structural functionalism, conflict theory, symbolic interactionism, ethno-methodology. Prerequisite(s): SOC 421. 3 credit(s)

**SOC 427 - Comparative Racial and Ethnic Relations**

Surveys racial and ethnic relations in different societies around the world, including the United States. Special attention given to structures of inequality and to social movements for racial justice and equality. Prerequisite(s): SOC 101 or SOC 102. Note(s): This course is crosslisted with SOC 627. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 428 - Special Topics in Comparative Societies**

Comparative analysis of some salient aspects of U.S. society and societies around the world. Focuses on socialization, cultural and structural aspects (e.g., ethnicity, religion, economy, politics, gender, age), and informal modes of living. Specific focus varies with special topics offered. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 628. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 429 - Globalization: Economic, Political, and Cultural Perspectives**

Addresses the nature of globalization, and the degree to which it differentially impacts people in various geographical regions and social strata. Traces the extent to which economic, political, and cultural systems rooted in nation-states during most of the twentieth century are likely to be replaced by emerging global institutions. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies International and Social Science Requirement. This course is crosslisted with SOC 629. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 431 - Crime and Criminal Behavior**

General survey of the field of criminology emphasizing social efforts to understand, explain, and deal with criminal behavior. Note(s): This course is crosslisted with SOC 631. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 433 - Juvenile Delinquency**

Delinquent behavior within its social context, with analysis of gangs, subcultures and the patterns of anti-social activity. Evaluation of institutional controls and treatments. Note(s): This course is crosslisted with SOC 633. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 434 - Penology & Social Control**

The social and historical development of prison systems and other forms of social control, as well as sociological theories of punishment. Includes recent research on prison population growth, offender rehabilitation, deterrence, recidivism, correctional administration, and inmate culture, as well as political repression and other related topics. Prerequisite(s): SOC 101. Note(s): This course is crosslisted with SOC 634. Credit at the 600-level requires additional work. 3 credit(s)



**SOC 436 - Sociology Of Poverty**

Theoretical framework for understanding Poverty as a consequence of socio-political structure rather than an individual level issue. Prerequisite(s): SOC 101 or SOC 102. 3 credit(s)

**SOC 441 - Social Inequality**

Analysis of causes and consequences of inequalities in wealth, prestige, and power in social life. Emphasis placed on the American class system, and inequalities of race, ethnicity, gender, and age also covered. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 641. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 442 - Sociology of Gambling**

(Same as GAM 442.) Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. Prerequisite(s): GAM 225 or SOC 101. Notes This course is crosslisted with SOC 642. Credit at the 600-level requires additional work. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 642. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 443 - Urban Sociology**

Analysis of the urban way of life, with attention to ecological and social characteristics of the city, urban problems, and trends in urban growth. Emphasis given to American society. Note(s): This course is crosslisted with SOC 643. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 444 - Sociology of Occupations and Professions**

Examination of occupations and professions in the contemporary United States in terms of occupational choice, education, socialization into the occupation, career patterns, as well as changing work roles, functions, and ideologies. Note(s): This course is crosslisted with SOC 644. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 445 - Men in Society**

Issues and problems of men in a society characterized by rapidly changing and ill-defined male gender roles. Perspectives from micro- and macrosociology. Varying branches of the "men's movement" examined. Note(s): This course is crosslisted with SOC 645. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 446 - Bureaucracy in Society**

Analysis of the structure and activities of modern large-scale organizations: conglomerates, voluntary associations, governmental bureaucracies, and multinational corporations. Note(s): This course is crosslisted with SOC 646. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 447 - Marriage and the Family**

Study of the institutions of marriage and the family and analysis of various factors and forces affecting the family. Emphasis upon present trends. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 647. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 449 - Sex and Social Arrangements**

Examination of human sexuality in social contexts. Emphasis on racial, ethnic, class and gender dynamics as well as cross-cultural, and historical comparisons with themes such as sexual identities and commodified sex. Study in script analysis including form, style, literal and metamorphical content and themes. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. Same as WMST 449. This course is crosslisted with SOC 649. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 451 - Russian Society in Transition**

Sociological survey of Russian society in transition. Reviews major Soviet institutions and examines current attempts to transform Russian society. Special attention to the origins of glasnost and perestroika and the difficulties that the former Soviet Union faces in reforming its communist system and building democracy and a market economy. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies International and Social Science Requirement.

This course is crosslisted with SOC 651. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 452 - Sociology of Youth Cultures**

Examines the sources of youth cultures in Western and other societies and explores the causes, forms, and trajectories of various contemporary youth cultures using cross-cultural, historical, and psychological insights. Note(s): This course is crosslisted with SOC 652. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 453 - Gender and Society**

(Same as WMST 453.) Examines the social construction of gender across a range of institutional, interactional, intellectual and cultural contexts. Emphasis is on the intersection of gender with race, ethnicity, social class and sexuality. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. Same as WMST 453. This course is crosslisted with SOC 653. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 455 - Social Movements and Social Change**

Sociological understanding of social movements and social change. Focuses on movements in the United States and around the world struggling over issues such as ethnicity, race, religion, and civil rights. Introduces theories and concepts about social movements emphasizing historical and cultural context, movement formation, organization, participants, ideology, and effects. Prerequisite(s): SOC 101 or SOC 102. Note(s) Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 655. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 456 - Life, Death, and Sex: Social Demography**

Examines the influences of demography (births, deaths, and mobility) on socioeconomic and political structures. Several topics covered affecting international populations such as race/ethnicity, births, deaths, gender, family, socioeconomic opportunities, poverty, aging, immigration, migration, urbanization, and environment. Links between these trends, policy, and well-being established. 3 credit(s)

**SOC 458 - Sociology of Mental Health**

Formerly Listed as SOC 473

Drawing on sociological theories and research, examines how various social forces shape experiences, symptoms, patterns of help-seeking, diagnoses, treatments, and prognoses of mental disorders by comparing those across various U.S. social classes, ethnic, gender, and age groups as well as in a global context. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 658. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 459 - Social Dilemmas of Climate Change**

Sociological understanding of climate change. Focuses on social, economic, organizational, and cultural dilemmas of global climate transformation, including: carbon-based production and consumption patterns, population growth, health effects, migration patterns, inequalities and social conflicts, and cultural perceptions of climate. Prerequisite(s): SOC 101 or SOC 102 Note(s): Satisfies International and Social Science Requirement. 3 credit(s)

**SOC 460 - Critical Sociology**

Acquaints the student with a body of theoretical and empirical work variously designated as critical, new, or radical sociology. Note(s): This course is crosslisted with SOC 660. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 461 - Self and Society**

Emphasis on those areas of social psychology primarily sociological in nature: the development of self and the changing self, the relationship of the individual to the group, and the process of socialization. Note(s): This course is crosslisted with SOC 661. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 462 - Mass Communications**

Examination of communication processes with special emphasis on news media, the relationship between media, mass culture, political processes, and the individual. Note(s): This course is crosslisted with SOC 662. Credit at the 600-level requires additional work. 3 credit(s)



**SOC 465 - Collective Behavior**

Examines how people cope with unexpected or threatening events. Emphasis placed on developmental sequences and communication processes involved in social movements, crowds, and public issues. Note(s): This course is crosslisted with SOC 665. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 466 - Sociology of Medicine**

Analyzes the medical profession and delivery of health care. Medical education, medicine as social control, ethical issues, and the management of medical knowledge examined. Prerequisite(s): SOC 101 or SOC 102 Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 666. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 467 - Sociology of Science**

Examines science as a social institution. Topics include the emergence of science in social context; recruitment, competition, and recognition in scientific careers; the social organization of the scientific community; and science in social change. Note(s): This course is crosslisted with SOC 667. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 469 - Crossing Borders/Global Migrations**

Examines how immigration policy has altered the social, political, and economic conditions facing undocumented and documented migrants. Additionally, the differences between women's and men's experiences with migration and connection between immigration policies and labor markets examined. 3 credit(s)

**SOC 470 - Sociology of Deviance**

Examines various themes of deviance and the making and breaking of norms, the creation of deviant identities and subcultures, and the relationship between deviance and society. Topics sometimes covered include white collar crime, prostitution, homosexuality, drug and alcohol abuse, and violence. Note(s): This course is crosslisted with SOC 670. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 471 - Race and Ethnic Relations in America**

(Same as ETS 471.) Analysis of inter-and intra-group conflicts associated with racial, ethnic, and socio-cultural differences. Attention to both structural and symbolic forms of domination and oppression and to the effects of prejudice and discrimination on all members of society. Special attention given to social movements for justice and equality. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies Multicultural and Social Science Requirement. This course is crosslisted with SOC 671. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 472\* - Latina/Latinos in America**

Explores the experiences of Latina/os in the U.S., particularly their social and economic integration. Covers and provides a historical context for how gender, racial, ethnic, sexual, and citizenship inequalities affect the rate of socioeconomic and cultural incorporation. 3 credit(s)

**SOC 474 - Sociology of Religion**

Critical study of the reciprocal relations of religion, culture, and society. Social sources of religious concepts, religious differentiation, and institutionalization, and the effect upon individual and group behavior. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies International and Social Science Requirement. This course is crosslisted with SOC 674. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 475 - Political Sociology**

Multiple dimensions and uses of power in society: development and resolution of public issues, political socialization, covert manipulation, and political movements. Note(s): This course is crosslisted with SOC 675. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 476 - Sociology of Education**

Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems. Draws upon research from a variety of fields. (Does not meet undergraduate professional education requirement.) Note(s): This course is crosslisted with SOC 676. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 478 - Women and Society**

(Same as WMST 478.) Theoretical framework for understanding sexism in our society as a problem of socio-political structure rather than as a problem of individual ideology and bias. Note(s): This course is crosslisted with SOC 678. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 481 - Sociology of Substance Use, Abuse, and Addiction**

Examination of the social contexts of substance use, abuse and addiction, programs for their amelioration and the sociological impact of such behavior. Attention also given to both abuse and its treatment in the local community. Note(s): This course is crosslisted with SOC 681. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 482 - Aging and Social Policy**

Social policy responses to the problems of aging. Emphasis on political, economic and social contexts underlying policy responses to aging from both historical and contemporary perspectives. Note(s): This course is crosslisted with SOC 682. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 484 - Sociology of Death and Dying**

Examines the process of dying; emphasis placed on managing grief, the role of the dying patient, prolonging life, and the funeral industry. Note(s): This course is crosslisted with SOC 684. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 488 - Architectural Sociology**

Examines how architecture influences and is influenced by sociocultural phenomena, human relationships, and self/identity. Applies a sociological perspective to the understanding of architecture in a wide variety of international places and cultures and examines how sociological theories and research methods can be applied to people-focused design. Prerequisite(s): SOC 101 or SOC 102. Note(s): Satisfies International and Social Science Requirement. This course is crosslisted with SOC 688. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 490 - Seminar**

Study of selected topics of current interest in sociology and significance to the discipline. Course content changes each time offered, and students may repeat enrollment under different instructors. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with SOC 690. Credit at the 600-level requires additional work. 1-3 credit(s)

**SOC 496 - Capstone in Sociology**

Capstone course for senior sociology majors to synthesize their learning in theory, methods and substantive areas. Prerequisite(s): SOC 422, SOC 403, SOC 404. 3 credit(s)

**SOC 497\* - Special Topics in Sociology**

Offered irregularly with content not otherwise available in the department's curriculum. Opportunity for students and instructor to explore new dimensions and unrepresented areas of sociology. Three credits per course. May be repeated to a maximum of nine credits. Note(s): This course is crosslisted with SOC 697. Credit at the 600-level requires additional work. 3 credit(s)

**SOC 498 - Independent Study in Cultural Studies**

Intensive study in a specific area of student interest under the direction of a faculty member. Prerequisite(s): Consent of instructor. 3 credit(s)

# College of Sciences

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## ***Purpose and Focus***

Science and technology influence every aspect of our lives. We live in a period marked by astonishing changes in communications, information processing, genetic engineering, materials sciences, medicine, transportation, and our understanding of the universe. The College of Sciences offers courses that equip students to function in this dynamic age, whether as informed citizens or as practicing professionals. Course offerings cover broad areas and enhance one's general understanding of nature, mathematics and technology. Undergraduate majors are introduced to the fundamentals of the natural and mathematical sciences that serve as the foundation for a host of professional careers.

## ***Accreditation***

Northwest Commission on Colleges and Universities  
American Chemical Society (B.S. in Chemistry)

## ***Departments, Majors, and Undergraduate Degrees***

### **College of Sciences**

Professional Development — Professional Development Degree

### **Department of Chemistry**

Biochemistry — Bachelor of Science

Chemistry — Bachelor of Arts

Chemistry — Bachelor of Science

### **Department of Geoscience**

Earth and Environmental Science — Bachelor of Science

Geology — Bachelor of Science

### **Department of Mathematical Sciences**

Mathematical Sciences — Bachelor of Arts

Mathematical Sciences — Bachelor of Science

Mathematical Sciences — Bachelor of Science, Actuarial Science Concentration

### **Department of Physics and Astronomy**

Physics — Bachelor of Science, Physics Concentration

Physics — Bachelor of Science, Applied Physics Concentration

Physics — Bachelor of Science, Computational Physics Concentration

### **School of Life Sciences**

Biology — Bachelor of Science, Cell and Molecular Biology Concentration

Biology — Bachelor of Science, Ecology and Evolutionary Biology Concentration

Biology — Bachelor of Science, Integrative Physiology Concentration

Biology — Bachelor of Science, Microbiology Concentration

Biology — Bachelor of Science, Pre-Professional Concentration

## ***Graduate Degree Programs***

### **Astronomy**

Master of Science in Astronomy, Doctor of Philosophy in Astronomy

### **Biochemistry**

Master of Science in Biochemistry

### **Chemistry**

Master of Science in Chemistry

Doctor of Philosophy in Chemistry

### **Radiochemistry**

Doctor of Philosophy in Radiochemistry

### **Geoscience**

Master of Science in Geoscience

Doctor of Philosophy in Geoscience

### **Life Sciences**

Master of Science in Biological Sciences

Doctor of Philosophy in Biological Sciences

### **Mathematical Sciences**

Master of Science in Mathematical Sciences

Doctor of Philosophy in Mathematical Sciences

Dual Master of Science in Mathematical Sciences/Economics (M.S./M.A.)

Dual Mathematical Sciences and Electrical Engineering (M.S./M.S. - EG)

Dual Mathematical Sciences and Electrical Engineering (M.S./Ph.D. - EG)

### **Physics**

Master of Science in Physics

Doctor of Philosophy in Physics

### **Science**

Master of Arts in Science (M.A.S.)

### **Water Resources Management**

Master of Science in Water Resources Management

## ***Minors***

Actuarial Science

Biological Sciences

Chemistry

Earth and Environmental Science

Geology

Mathematics

Physics

Physical Geography

Statistics

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Sciences.

## ***Admission to the College***

Minimum GPA: 2.50

Students must also satisfy department GPA requirements before being admitted to a major within the College.

### **Admission Policies:**

A cumulative grade point average of at least 2.50 is required for entrance into the College of Sciences.

The College of Science at UNLV requires incoming freshmen students to meet or exceed Nevada System of Higher Education (NSHE) requirements for placement into a college-level gateway course in Mathematics (e.g., MATH 124, 126, or higher) in order to declare a major in one of the major disciplines offered by the College of Science.

To declare a major in the College of Science, students must satisfy one of the following NSHE and UNLV requirements for placement into a college-level gateway course in Mathematics:

- ACT mathematics score of 22 or better.
- SAT mathematics score of 500 or better.
- Smarter Balanced result of 2628 (Achievement Level 3).
- PARCC result of 4.
- UNLV Mathematics placement test score (online or written) into college-level gateway course.

Students who do not meet these minimum mathematics requirements will be able to enroll and take courses at UNLV if they enter the UNLV "Exploring Majors" Program. As a member of the Exploring Majors Program, students will be required to meet and work with advisors in the Academic Success Center, enroll in suitable mathematics courses or bridge programs as directed by their advisors, and enroll in a First Year Experience (101) course designed for the Exploring Majors Program. Students in the Exploring Majors Program who subsequently meet the minimum requirements for placement into a college-level gateway course in Mathematics may then formally declare a major within the College of Sciences.

See additional admission policies of individual departments.

**Transfer Policies:** The College of Sciences adheres to the University of Nevada, Las Vegas policies for transfer students found elsewhere in this catalog. The college urges all transfer students to meet an advisor without delay after admission in order to evaluate the applicability of previous course work to department majors and graduation requirements.

### **College Policies**

**Probation:** A student will be placed on probation within the college for any of the following reasons:

1. The student's cumulative GPA falls below 2.00.
2. The student's semester GPA is below 2.00 for all degree courses.
3. The student receives D, F, or I grades in more than two courses in one semester.

English and math requirements should be taken during the student's first year at UNLV, but no later than the end of the second. Please see the catalog Admissions Section for current ACT/SAT placement test scores that will guide placement in the appropriate English and math class.

**Requirements for Probationary Students:** Once a student has been placed on probation as a major in a department of the college, the following guidelines apply:

The student must meet with an advisor to design and agree upon a probationary course of study. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed. Specific courses will be selected in consultation with the advisor based on

the student's previous progress and on established degree program requirements. Upon agreement on a course of study, the advisor will place a memorandum outlining the course of study in the student's file.

Students are expected to complete the probationary course of study within two consecutive semesters and one summer. With approval of the faculty advisor, three consecutive semesters (and the intervening summer) may be allowed if course schedules make it necessary. Students who complete the probationary course of study within the allotted time with a cumulative GPA (for the course of study only) of at least 2.00 will be removed from probation.

Students should consult the listings for individual departments within the college for any specific requirements concerning probationary status.

**Suspension:** A student on probation will be suspended from the college for the following reasons:

1. The student fails to maintain a GPA of at least 2.00 in a probationary course of study within the allotted time period.
2. The student's cumulative grade point balance is -15 or lower.
3. The student has received D, F, or I grades in more than 25 percent of all degree courses taken.

**Readmission:** A suspended student may apply for readmission to the college after a full calendar year has elapsed. The readmitted student will enter the college on probation and must follow the requirements for probationary students as outlined above. Under these rules, the student may be suspended a second and final time.

### **Advisement**

Students interested in majoring in any curricular area of the college should consult an advisor in the appropriate department or in the office of the College of Sciences Advising Center for further information concerning scheduling of courses, and curricular revisions too recent to appear in this catalog. It is required that all incoming transfer students obtain advising from the College of Sciences Advising Center prior to the first semester of classes. Freshmen are required to obtain advising before enrolling in their first semester classes at UNLV. As well, those students with any questions regarding degree requirements and graduation applications should contact the Advising Center.

Upperclassmen are encouraged to meet with a faculty advisor regarding career information and graduate/professional schools. Information pertaining to graduate degree programs, including instructions for undergraduate enrollment in graduate courses, is found in the UNLV Graduate Catalog.

### **Degree Requirements**

The graduation requirements outlined below apply to all majors in the College of Sciences.

1. The General Education Core requirements of the university (see Academic Policies section).
2. A total of at least 120 credits with at least 40 credits in courses numbered 300 or higher.
3. The specific requirements for the degree being sought (see departmental listings).
4. A cumulative GPA of at least 2.00 for all courses in the major field.

## ***Health-Related Pre-Professional Students***

In addition to pursuing a degree program, many students plan to seek admission to health-related professional schools that provide advanced degrees in specialties such as medicine, osteopathic medicine, veterinary medicine, dentistry, optometry, pharmacy, podiatry, or chiropractic. The College of Sciences provides a complete array of courses that are required by professional schools for admittance. Students who plan to apply to a professional school should be aware of the UNLV Pre-Professional Interview Committee. This committee consists of faculty from a variety of disciplines, including non-science areas and health care professionals from the community. The committee interviews students prior to their applications to professional schools and writes letters of recommendation. When students are ready for their pre-professional interviews (normally in the spring semester of their junior year), they should contact the Office of the Pre-Professional Advisor 702-895-3170 in order to obtain a Pre-Professional interview packet, which contains information and instructions about the interview process. Regardless of the specific major or curricular path within a major that is chosen, students will find excellent Pre-Professional training available in the college.

## ***Certification for Teaching Science or Mathematics in Secondary Schools***

Students wanting to prepare themselves to teach science or mathematics at the secondary school level should be aware of the special requirements for teacher certification. It is recommended that these students major in one of the degree programs in the College of Sciences, make their interest in teaching known to their advisor, and consult the College of Education section of this catalog to become aware of specific teacher certification requirements and the availability of the minor in Secondary Education.

### **ENS 100 - Humans and the Environment**

Introduction to the relationship of humans and the environment. Selected aspects of current thinking and research concerning the impact of industrialization and urbanization on environmental quality, including the population explosion; the potential decline of the affluent society by the depletion of natural resources; the pollution of air, land surface, and water; and the public agencies and policies designated to solve environmental problems. 3 credit(s)

### **ENS 301 - Science Seminars for Teachers**

Weekly seminars pertaining to newsworthy topics in the sciences. Designed for primary and secondary educators and presented by UNLV faculty and area scientists. May be taken for one or three credits; the three-credit option requires a library research paper. One credit S/F only; three credits grade only. Prerequisite(s): Bachelor's degree in education or teaching certificate. Note(s): S/F grading only. 1-3 credit(s)

## ***Post-Baccalaureate***

### ***Professional Development Degree in Science and Education (PDDSE)***

This post baccalaureate degree is intended for persons who hold at least a bachelor's degree and are eligible for or hold a teaching certificate (option A) or who hold at least a bachelor's degree in science, mathematics, or applied science and wish to qualify for a teaching certificate in science or mathematics (option B). The program is intended to deepen and/or broaden the student's background toward those ends. The program consists of a minimum of 24 credits of appropriate course work and is planned with the help of an advisor to meet the needs of individual students. The program

plan must be approved by the PDDSE Program Committee consisting of the deans of the College of Sciences and the College of Education or their designees.

**Admission:** The applicant must possess at least a bachelor's degree in mathematics or a pure or applied science degree or at least a bachelor's degree in any field that qualifies the applicant to hold a valid teaching certificate. Applicants must have as a career objective the goal of teaching science or mathematics in the common schools.

### **Prerequisite Courses:**

MATH 126 - Precalculus I (Precalculus mathematics I or equivalent) and either

CHEM 121A - General Chemistry I/ CHEM 121L - General Chemistry Laboratory I (General Chemistry I or equivalent)

or

PHYS 151 - General Physics I

PHYS 151L - General Physics I

or

PHYS 180L - Physics for Scientists and Engineers Lab I

PHYS 180 - Physics for Scientists and Engineers I

Any of these courses may be taken during study for the degree but will not count in the required 24 credits.

**Option A:** This option is for students who hold at least a B.A./B.S. in any field and who hold or would qualify for a teaching certificate. The student must complete a program of study constructed with the aid of an advisor and approved by the PDDSE Program Committee. The course work will provide the background and competency necessary to instruct in a field or fields of specialization. Generally, this will require the student to meet a major or minor teaching certificate endorsement in mathematics or one of the sciences, or the broad field science option as specified by the Nevada Department of Education. Minimum requirements in the fields available are listed below:

	Minor	Major
Biological Sciences	24 credits	36 credits
General Science	24 credits	36 credits
Mathematics	16 credits	30 credits

The student must also complete a special methods course for the teaching area of specialization.

**Option B:** This option is for students who hold at least a B.A./B.S. in science, an applied science, or mathematics. The student must complete a program of study drawn up with the help of an advisor and approved by the PDDSE Program Committee. This includes course work in mathematics or science needed to fulfill requirements for a major or minor in at least one area of teaching specialization, the appropriate teaching methods course(s), and those professional education courses specified by the Nevada Department of Education as necessary for certification as a teacher.

**Program Completion Requirements:** Students enrolled in either Option A or Option B must complete the following program requirements.

1. A minimum of 24 credits at UNLV. With permission of the advisor, up to seven credits that were earned subsequent to the award of the bachelor's degree may be transferred from another accredited institution of higher learning. No course in which the grade was C- or lower will be accepted.



2. A minimum cumulative grade point average of 2.50 or above in courses that appear on the official program, exclusive of prerequisites.
3. Completion of:
  - MATH 127 - Precalculus II (Precalculus Mathematics II) or equivalent and completion of one of the following:
  - CHEM 122A - General Chemistry II/CHEM 122L - General Chemistry Laboratory II (General Chemistry II Lab) or equivalent
  - PHYS 152 - General Physics II
  - PHYS 152L - General Physics II or equivalent
  - PHYS 181 - Physics for Scientists and Engineers II
  - PHYS 181L - Physics for Scientists and Engineers Lab II or equivalent
  - PHYS 182 - Physics for Scientists and Engineers III
  - PHYS 182L - Physics for Scientists and Engineers Lab III

The intent is that students complete at least one year of general chemistry or one year of general or engineering physics.

### College of Science Course Descriptions:

**SCI 101** is a first year course (fulfills First Year Seminar requirement) designed to foster understanding of scientific methodology, discourse, and ethics, develop analytical and critical thinking skills, and to help students explore, discover, and connect with the university and its academic and scientific resources.

**SCI 499** is a seminar course designed to develop and hone leadership skills for undergraduate students. Students acquire skills required for proctoring examination, tutoring of undergraduate students, teaching undergraduate students, and peer advising. Students also receive education regarding ethics that are essential for all responsibilities. Prerequisite: Sophomore standing and cumulative GPA of 3.0 or higher.

## Other Programs

## Health Career Professional Studies, Post-Baccalaureate Certificate Program

This program is for students who have undergraduate degrees in any discipline who wish to pursue a career in the health sciences. There are three tracks, each designed to assist a different demographic. Completion of requirements in any track will result in awarding the Certificate.

**Track 1**-Career Change is designed to assist individuals who are interested in making a career change. This track is intended to facilitate the completion of prerequisite and preparatory coursework to confer eligibility to apply to medical school and dental school. Students interested in pursuing Pharmacy, Physician Assisting, Physical Therapy, Veterinary, Chiropractic, or any other type of health science professional school may pursue this track, but will likely need to take additional courses to complete the prerequisites for these types of professional school. Only students whose grade point averages are competitive for professional school (3.0 or higher) should pursue this track. It consists of 64 credits of defined

coursework that are delineated below. Transfer credits may be accepted dependent on how recent the coursework was completed. Courses over 10 years old are not considered to be current for application to professional school.

BIOL 196, BIOL 197, BIOL 351, BIOL 300 or BIOL 304, BIOL 348, BIOL 440 or BIOL 447, CHEM 121A, CHEM 122A, CHEM 241/CHEM 241L, CHEM 242/CHEM 242L, CHEM 474, CHEM 475, PHYS 151, PHYS 152, ENG 102, PSY 101, one upper division Psychology course

**Track 2**- Health Science Enhancement is designed for two demographics of students; those that have applied to professional school and been rejected due to a low grade point average and those who have not yet applied to professional school due to a low grade point average and wish to improve their application before applying. These students typically require substantive post-baccalaureate coursework and the extent of the number of credits required to facilitate acceptance to professional school is directly dependent on how low starting GPA is. In most cases, 60 credits may facilitate acceptance to professional school, but in the extreme cases 90 credits may be necessary. As such, students may complete 60 to 90 credits of any of the following courses to earn the certificate.

BIOL 223, BIOL 224, BIOL 251, BIOL 351, BIOL 300, BIOL 301, BIOL 304, BIOL 305, BIOL 360, BIOL 361, BIOL 405, BIOL 409, BIOL 414, BIOL 417, BIOL 418, BIOL 425, BIOL 440, BIOL 445, BIOL 447/BIOL 455, BIOL 451, BIOL 453, BIOL 460, BIOL 464, BIOL 465, BIOL 466, BIOL 468, BIOL 470, BIOL 475, BIOL 485, BIOL 489, CHEM 421, CHEM 422, CHEM 428, CHEM 474, CHEM 475, CHEM 476, CHEM 478

**Track 3** - Medical School Partnership - is designed for the partnership with the any of the schools of medicine in the state of Nevada that have agreements with UNLV. This track affords preferential consideration to students who are first generation college, from groups which are under-represented in medicine, including Native American, Latino/Latina, African-American; and students from rural areas, and low socio-economic backgrounds. Anyone is eligible to apply. Students pursuing this track must also complete the application for this program with the participating school of medicine and proceed through a screening process to be selected for this track. If the student maintains a 3.3 cumulative GPA and earns a minimum score to be determined by the school of medicine on the MCAT, the student is eligible to apply for a reserved number of seats for the appropriate incoming medical school class. The participating schools of medicine reserve up to 10% of incoming seats for post baccalaureate students. It is designed for students who have undergraduate degrees who are not academically competitive to apply to medical schools. Students do not have to be a re-applicant. Students admitted to this track must complete 30 credits from the following courses over a single academic year.

BIOL 351, BIOL 300, BIOL 301, BIOL 304, BIOL 305, BIOL 360, BIOL 361, BIOL 405, BIOL 409, BIOL 414, BIOL 417, BIOL 418, BIOL 425, BIOL 440, BIOL 445, BIOL 447, BIOL 451/BIOL 455, BIOL 453, BIOL 460, BIOL 464, BIOL 465, BIOL 466, BIOL 468, BIOL 470, BIOL 475, BIOL 485, BIOL 489, CHEM 421, CHEM 422, CHEM 428, CHEM 474, CHEM 475, CHEM 476, CHEM 478

# School of Life Sciences

## ***Purpose and Focus***

Biology is the study of life. The earth is filled with an enormous variety of living organisms; therefore, an understanding of the basic biological processes common to all organisms is essential to understanding the world. In recent decades, great strides have been made in understanding important biological processes, particularly those at the molecular, cellular, and ecosystem levels. An understanding of biological systems depends, in part, on the principles of physics and chemistry; thus a firm background in the physical sciences is also important in the study of biology. For many, an undergraduate major in biology serves as a basis for postgraduate study in the life sciences. School of Life Sciences graduates have gone on to advanced graduate study, leading to careers in college or university teaching, basic and applied research, and public health. Many have entered professional programs in medicine, veterinary medicine, and dentistry. Other graduates have gone directly into secondary (high school) science teaching, the biomedical industry, independent laboratory research, natural resources management, or environmental education.

## ***Accreditation***

Northwestern Commission on Colleges and Universities

## ***Undergraduate Major***

Biological Sciences

## ***Degree Objectives/Learning Outcomes***

The primary mission of the School of Life Sciences is to provide a rich, contemporary learning environment that ensures an integrated educational experience spanning the full spectrum of biology, with focused training available to advanced undergraduate students. Through these efforts, the School of Life Sciences will occupy central roles in creating scientific literacy among the diverse array of UNLV students and in addressing biological issues of local, regional, and global interest.

Students who graduate with a major in biology at UNLV will acquire:

1. Knowledge of the diversity and similarity of living organisms at organizational levels ranging from molecules to the community.
2. Knowledge of processes of inheritance and natural selection as they influence the characteristics of populations and species.
3. Knowledge of scientific methods and the relationships among theory, experiment, analysis of data, and general knowledge.
4. The ability to articulate, in verbal and written form, knowledge of biology, biological methods, and biological issues in context.

## ***Learning Outcome***

Students who graduate with a major in biology will have fulfilled their personal expectations and will indicate they have been accepted to a graduate or professional school or an entry-level career position.

## ***Areas of Concentration***

Biological Sciences majors at the university have a choice of five areas of specialized study (concentrations) that prepare them for a variety of professional fields. In addition to attending graduate, medical, and other professional schools, Biological Sciences majors may move directly to governmental and private-sector careers in such

fields as health care, laboratory sciences, environmental sciences, and teaching. All concentrations provide the necessary background for application to graduate programs and medical or health science professional schools, differing mainly in their emphasis on specialized career trajectories within the life sciences.

### **Biology — Cell and Molecular Biology**

The Cell and Molecular Biology concentration provides Biological Sciences majors with the intellectual tools essential for careers in biotechnology and biomedical science research as well as for transition to graduate Ph.D. programs in Biology, and in Cell and Molecular Biomedical research.

### **Biology — Ecology and Evolutionary Biology**

This concentration is recommended for those students who desire a strong foundation in evolution and the conceptual explanatory core of biology, as well as those whose interests are at the interface between organisms and their environments — that is, ecology. Ecology and Evolutionary Biology students are well-prepared for advanced graduate education in the Biological sciences and for careers in Environmental Biology research in teaching and in natural resources assessment and management.

### **Biology — Education**

The Education concentration is designed for students seeking exceptionally strong backgrounds for professional teaching careers that include biology as a first teaching field. Students completing the Biology — Education curriculum also enroll in course work to satisfy the Minor in Secondary Science Education in the UNLV College of Education.

### **Biology — Microbiology**

The Microbiology concentration provides the biology major with the intellectual and technical skills required for success in the broad area of microbiology, which includes clinical, environmental, ecological, evolutionary, molecular, metabolic, and physiological perspectives of microbes, including aspects of virology and immunology. The skills obtained in this concentration provide training for an array of life sciences careers, including application to all the health care-related professional schools, appropriately related graduate schools, or related postgraduate study as well as biomedical science research. The Microbiology concentration focuses on how microbes function at a variety of levels of organization, from understanding the genetics of micro-organisms, their gene regulation environmental interactions, metabolic regulation, and ecological interactions. Microbiology impacts all levels of biological organization, and as such, students majoring in Biology with a concentration in microbiology are provided with a solid foundation in the life sciences yet are exposed to an in-depth understanding of microbial processes.

### **Biology — Pre-Professional**

The Preprofessional Biology concentration provides Biological Sciences majors with the intellectual tools essential for application to health care-related professional schools, including medical, dental, veterinary, optometric, and related programs.

## **Biological Sciences — Pre-Professional Biomedical Studies (BS)**

### **Early Admit Fast-Track Program with the University of Nevada School of Medicine**

This program expedites the process of earning a medical degree. Students admitted to the program complete three years of prerequisite coursework at UNLV. Following completion of the second year, students take the MCAT and apply to the University of Nevada School of Medicine (UNSOM) through the American Medical College Application Service (AMCAS). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to UNSOM matriculate following completion of the third year at UNLV. Coursework completed at UNSOM during the first two years is transferred to UNLV to complete the Bachelor of Science in Preprofessional Biomedical Sciences. The net result is reduction of the time required to earn the baccalaureate and medical degrees from 8 years to 7.

### **Early Admit Fast-Track Program with UNLV - School of Dental Medicine**

This program expedites the process of earning a doctor of dental medicine degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the DAT and apply to UNLV — School of Dental Medicine (UNLV-SDM) through the Associated American Dental School Application Service (AADSAS). Participation in this early admit program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to UNLV-SDM matriculate following completion of the third year at UNLV. Course work completed at UNLV-SDM during the first year is transferred to UNLV to complete the Bachelor of Science in biology — pre-professional concentration. The net result is reduction of the time required to earn the baccalaureate and DMD degrees from eight years to seven. To learn more about the specific details of this program, please contact the pre-health advisor.

### **Early Admit Fast-Track Program with Touro University - College of Osteopathic Medicine**

This program expedites the process of earning an osteopathic medical degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the MCAT and apply to Touro University – College of Osteopathic Medicine (TU-COM) through the Association of American Colleges of Osteopathic Medicine Application Service (AACOMAS). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to TU-COM matriculate following completion of the third year at UNLV. Course work completed at TU-COM during the first two years is transferred to UNLV to complete the Bachelor of Science in Biology — Pre-Professional Concentration. The net result is reduction of the time required to earn the baccalaureate and medical degrees from eight years to seven. To learn more about the specific details of this program please contact the pre-health advisor.

### **Early Admit Fast-Track Program with Touro University - Physician Assistant Studies Program**

This program expedites the process of earning a Master's in Physician

Assistant Studies. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students apply to Touro University — Physician Assistant Studies Program (TU-PASP) through the Central Application Service for Physician Assistants (CASPA). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to TU-PASP matriculate following completion of the third year at UNLV. Course work completed at TU-PASP during the first two years is transferred to UNLV to complete the Bachelor of Science in Biology — Pre-Professional Concentration. The net result is reduction of the time required to earn the baccalaureate and physician assistant degrees from six to five. To learn more about the specific details of this program, please contact the pre-health advisor.

## **Major**

### **Biological Sciences - Pre-Professional Biomedical Studies - Bachelor of Studies (BS)**

Please see the UNLV College of Sciences, Biological Science department web page at [www.unlv.edu/degree/bs-biological-sci-pre-professional-studies](http://www.unlv.edu/degree/bs-biological-sci-pre-professional-studies) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

## **Learning Outcomes**

All students graduating with a Bachelor of Science in Biological Sciences should be able to:

\*Outcomes marked with an asterisk apply to students graduating with a minor in Biological Sciences.

1. Understand the nature of scientific knowledge.\*
  - Describe the differences between opinions, facts, and scientific theories
  - Appropriately utilize the scientific method within the laboratory environment
  - Apply their understanding of the scientific method to successfully design an experiment
  - Critically analyze scientific content presented both orally and in writing
2. Understand cell structures and functions.\*
  - Explain the similarities and differences between prokaryotic and eukaryotic cells
  - Explain the similarities and differences between plant and animal cells
  - Describe the structure and function(s) of common eukaryotic organelles (nucleus, ribosomes, rough and smooth endoplasmic reticulum, Golgi apparatus, vesicles, lysosomes, mitochondria, chloroplasts, peroxisomes, vacuoles, and cytoskeleton)
  - Diagram the structure of an animal cell membrane, including the phospholipid bilayer, cholesterol, proteins, and carbohydrates
  - Explain the functions of the cell membrane, including passive and active transport and communication/information processing



3. Understand the physical nature of genetic information.\*
  - Describe the structure of DNA
  - Diagram the basic structure of a gene, including regulatory and coding sequences
  - Explain how genetic information is used in reproduction, including the processes of mitosis and meiosis
  - Explain how genetic information is utilized during transcription, translation, DNA replication, and cell division
  - Explain how genetic information can be changed through processes of mutation
  - Explain how epigenetic regulation of gene expression can occur
4. Understand that all organisms are genetically related, have evolved, and are evolving.\*
  - Explain the relationship between genetic information, physical characteristics, and the environment
  - Provide a timeline of major evolutionary events describing the emergence of the main forms of life (prokaryotes, eukaryotes, multicellular life, fungi, plants, insects, fish, amphibians, reptiles, birds, mammals)
  - Articulate the mechanisms of evolution including mutation, selection, and speciation
  - Apply their understanding of evolutionary relationships to accurately interpret phylogenetic trees
  - Explain experimental techniques used to investigate evolution
5. Understand the metabolic complexity of cells and organisms.
  - Provide examples of diverse mechanisms used by cells/organisms to extract energy from the environment
  - Explain the reactions of energy transformation that occur in mitochondria, chloroplasts, microbes, and multicellular organisms
  - Provide examples of diverse mechanisms used by cells/organisms to synthesize biological molecules
  - Explain how cells/organisms regulate the internal environment
6. Understand the complex interplay of how organisms respond to and interact with each other and their environment.
  - Describe how interactions change as the scale of life transitions from cells to ecosystems
  - Articulate the different patterns of population growth and explain the environmental factors that underlie each pattern
  - Explain community structure and the various forms of biodiversity
  - Provide examples of the types of interactions that can occur between community members, including competition, predation, parasitism, coexistence, mutualism, and commensalism
  - Explain how communities can respond to disturbances
  - Discuss the interactions that occur between organisms and the nonliving components of their environment, including the role of biogeochemical cycling
7. Effectively communicate complex biological concepts, orally and in writing.
  - Effectively discuss individual biological concepts in short written format such as a two to four paragraph response
  - Effectively articulate the relationships between many biological concepts in an extended written format such as an eight to ten page paper
  - Effectively explain individual biological concepts in a ten to fifteen minute oral presentation
  - Effectively answer questions from the audience following an oral presentation

- Summarize key points from a peer-reviewed journal article in a written report or during a group discussion
8. Fulfill their professional goals.
    - In addition to the outcomes listed above, concentration specific outcomes are as follows:

#### **Cell and Molecular Biology**

- Explain the interrelationship between chemistry and biology, including how physical and chemical laws influence the structure and function of intracellular components and macromolecules.

#### **Ecology and Evolutionary Biology**

- Articulate in detail the interactions organisms have with each other and with nonliving components of the environment and how organisms and environments change over time.

#### **Integrative Physiology**

- Explain how cells and organisms acquire and process nutrients, transform energy, and maintain homeostasis in a variable environment to survive and reproduce.

#### **Microbiology**

- Explain the diversity and similarity of microbes, including their physiology, mechanisms of pathogenesis and host defenses, and unique ecology.

#### **Pre-professional Studies**

- Become competitive candidates for admission into professional schools.

#### **University Graduation Requirements**

- Please see Graduation Policies for complete information

#### **Early Admit Fast – Track Program with the University of Nevada School of Medicine**

This program expedites the process of earning a medical degree. Students admitted to the program complete three years of prerequisite coursework at UNLV. Following completion of the second year, students take the MCAT and apply to the University of Nevada School of Medicine (UNSOM) through the American Medical College Application Service (AMCAS). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to UNSOM matriculate following completion of the third year at UNLV. Coursework completed at UNSOM during the first two years is transferred to UNLV to complete the Bachelor of Science in Preprofessional Biomedical Sciences. The net result is reduction of the time required to earn the baccalaureate and medical degrees from 8 years to 7.

Students desirous of entering the program must satisfy one of two admission criteria:

##### *Traditional application route:*

- Completion of high school with a 3.5 cumulative GPA
- Completion of the ACT with a minimum score of 27
- Submission of three letters of recommendation
- Submission of a resume summarizing all relevant non-curricular experience

##### *Alternate application route:*

- Completion of 30 credit hours of coursework including at least two science courses
- Maintain a 3.5 cumulative and 3.5 science GPA in above coursework
- Submission of three letters of recommendation
- Submission of a resume summarizing all relevant non-curricular experience



Students meeting either criterion may apply for the program. A joint admission committee comprised of both UNLV and UNSOM faculty will interview applicants and select students for admission into the program. Students admitted to the program engage in three years of defined curriculum required for the baccalaureate degree and application to UNSOM. The Pre-Health Advisor monitors student performance during the three years at UNLV. Students whose science or cumulative GPA falls below 3.5 are placed on academic probation. Students incurring two sequential semesters of academic probation are ejected from the program and may not petition for readmission. Students who maintain a 3.5 cumulative and science GPA are eligible to take the MCAT and apply for admission to UNSOM following completion of the second year of coursework. The application process requires completion of the AMCAS application, a MCAT score of 28 or better with no subset scores lower than 8, and an interview by the Pre-professional Evaluation Committee. Students meeting the above criteria are granted an interview by the UNSOM Committee. The committee bases its decision to admit or deny admission on academic performance, MCAT score, non-curricular qualifications, and the interview. Students who are not admitted to UNSOM through the Early Admit Program are eligible to reapply following completion of the third year of undergraduate coursework.

#### Biological Science - Pre-Professional

Biomedical Studies Degree Requirements ..... Total: 120 Credits  
 General Education Requirements ..... Subtotal: 32-36 Credits  
 First-Year Seminar ..... Credits: 2-3  
 (see note 1 below)

English ..... Credits: 6

- ENG 101 - Composition I

and

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 3-6

Mathematics

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: ..... 9 Credits
  - o Two courses 3 credits each from two different humanities areas ..... 6 Credits
  - o One course in fine arts ..... 3 Credits
- Social Science: ..... 9 Credits
  - o EPY 303 - Educational Psychology
  - o and two 3 credits social science courses
- Life and Physical Sciences and Analytical Thinking:
  - o Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Biological Science -

PreProfessional Studies ..... Subtotal: 78-85 Credits  
 (see note 2 below)

UNSOM Courses ..... UNLV Equivalent

Systems Physiology ..... BIOL 440 - Mammalian Physiology

Clinical Histology ..... BIOL 468 - Histology

Human Biochemistry ..... CHEM 474 - Biochemistry I

CHEM 475 ..... Biochemistry II

Clinical Gross Anatomy ..... BIOL 451 - Comparative Vertebrate  
 Anatomy

Clinical Embryology ..... BIOL 465 - Vertebrate Embryology

Medical Neuroscience ..... BIOL 475 - Neurobiology

Nutrition ..... BIOL 449 - Comparative Nutrition

Medical Cell Biology ..... BIOL 445 - Cell Physiology

The combination of Basic Science Foundation and Principles of Biochemistry provide credit for BIOL 468, and CHEM 475.

General Human Anatomy provides credit for both BIOL 465.

Infection and Immunity and Medical Microbiology and Immunology combined provide credit for BIOL 251 and BIOL 453.

Capstone Experience may be used to fill part of the Biology-Preprofessional requirement (see note 3 below).

**Biology Core Requirements** ..... Credits: 19

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses ..... Credits: 31

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II

- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II

- MATH 181 - Calculus I - Fulfills General Education Requirement
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I
- PHYS 152 - General Physics II
- PHYS 152L - General Physics II

**At least one upper-division BIOL course from list A or E.**

**List A: Ecological and Evolutionary Biology:**

- BIOL 301 - Fossil Record
- BIOL 302 - Evolutionary Survey of Vascular Plants
- BIOL 305 - Introduction to Conservation Biology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 427 - Bryology
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 480 - Introduction to Biological Modeling

- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

#### **List E: Organismal Biology:**

- BIOL 301 - Fossil Record
- BIOL 302 - Evolutionary Survey of Vascular Plants
- BIOL 320 - Invertebrate Zoology
- BIOL 422 - Taxonomy of Vascular Plants
- BIOL 431 - Ichthyology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 437 - Entomology

Courses completed at the University of Nevada School of Medicine provide credit for all remaining coursework required for the Biology - Preprofessional degree.

Total Credits: ..... 120

#### **Notes:**

1. Lists of approved capstone courses may be obtained in the departmental office or the College of Sciences Advising Center.
2. At least 40 credits must be earned at the upper-division level (300 and above).
3. Lists of approved capstone courses may be obtained in the departmental office or the College of Sciences Advising Center.

### **Biology Major (BS)**

#### **Biology Major - Bachelor of Science (BS)**

Please see the UNLV College of Sciences, Biology department web page at [www.unlv.edu/lifesciences](http://www.unlv.edu/lifesciences) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

#### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

#### **Learning Outcomes**

All students graduating with a Bachelor of Science in Biological Sciences should be able to:

\*Outcomes marked with an asterisk apply to students graduating with a minor in Biological Sciences.

1. Understand the nature of scientific knowledge.
  - Describe the differences between opinions, facts, and scientific theories
  - Appropriately utilize the scientific method within the laboratory environment
  - Apply their understanding of the scientific method to successfully design an experiment
  - Critically analyze scientific content presented both orally and in writing
2. Understand cell structures and functions.
  - Explain the similarities and differences between prokaryotic and eukaryotic cells
  - Explain the similarities and differences between plant and animal cells

- Describe the structure and function(s) of common eukaryotic organelles (nucleus, ribosomes, rough and smooth endoplasmic reticulum, Golgi apparatus, vesicles, lysosomes, mitochondria, chloroplasts, peroxisomes, vacuoles, and cytoskeleton)
  - Diagram the structure of an animal cell membrane, including the phospholipid bilayer, cholesterol, proteins, and carbohydrates
  - Explain the functions of the cell membrane, including passive and active transport and communication/information processing
3. Understand the physical nature of genetic information.
    - Describe the structure of DNA
    - Diagram the basic structure of a gene, including regulatory and coding sequences
    - Explain how genetic information is used in reproduction, including the processes of mitosis and meiosis
    - Explain how genetic information is utilized during transcription, translation, DNA replication, and cell division
    - Explain how genetic information can be changed through processes of mutation
    - Explain how epigenetic regulation of gene expression can occur
  4. Understand that all organisms are genetically related, have evolved, and are evolving.
    - Explain the relationship between genetic information, physical characteristics, and the environment
    - Provide a timeline of major evolutionary events describing the emergence of the main forms of life (prokaryotes, eukaryotes, multicellular life, fungi, plants, insects, fish, amphibians, reptiles, birds, mammals)
    - Articulate the mechanisms of evolution including mutation, selection, and speciation
    - Apply their understanding of evolutionary relationships to accurately interpret phylogenetic trees
    - Explain experimental techniques used to investigate evolution
  5. Understand the metabolic complexity of cells and organisms.
    - Provide examples of diverse mechanisms used by cells/organisms to extract energy from the environment
    - Explain the reactions of energy transformation that occur in mitochondria, chloroplasts, microbes, and multicellular organisms
    - Provide examples of diverse mechanisms used by cells/organisms to synthesize biological molecules
    - Explain how cells/organisms regulate the internal environment
  6. Understand the complex interplay of how organisms respond to and interact with each other and their environment.
    - Describe how interactions change as the scale of life transitions from cells to ecosystems
    - Articulate the different patterns of population growth and explain the environmental factors that underlie each pattern
    - Explain community structure and the various forms of biodiversity
    - Provide examples of the types of interactions that can occur between community members, including competition, predation, parasitism, coexistence, mutualism, and commensalism
    - Explain how communities can respond to disturbances
    - Discuss the interactions that occur between organisms and the nonliving components of their environment, including the role of biogeochemical cycling

7. Effectively communicate complex biological concepts, orally and in writing.
  - Effectively discuss individual biological concepts in short written format such as a two to four paragraph response
  - Effectively articulate the relationships between many biological concepts in an extended written format such as an eight to ten page paper
  - Effectively explain individual biological concepts in a ten to fifteen minute oral presentation
  - Effectively answer questions from the audience following an oral presentation
  - Summarize key points from a peer-reviewed journal article in a written report or during a group discussion
8. Fulfill their professional goals.
  - In addition to the outcomes listed above, concentration specific outcomes are as follows:

#### **Cell and Molecular Biology**

- Explain the interrelationship between chemistry and biology, including how physical and chemical laws influence the structure and function of intracellular components and macromolecules.

#### **Ecology and Evolutionary Biology**

- Articulate in detail the interactions organisms have with each other and with nonliving components of the environment and how organisms and environments change over time.

#### **Integrative Physiology**

- Explain how cells and organisms acquire and process nutrients, transform energy, and maintain homeostasis in a variable environment to survive and reproduce.

#### **Microbiology**

- Explain the diversity and similarity of microbes, including their physiology, mechanisms of pathogenesis and host defenses, and unique ecology.

#### **Pre-professional**

- Become competitive candidates for admission into professional schools.

#### **University Graduation Requirements**

Please see Graduation Policies for complete information

#### **Admission Policies**

Minimum GPA Requirement: 2.50

Prospective biology majors with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. A student placed on probation must meet with an advisor to design and agree upon a probationary course of study based on the student's previous progress and on established degree program requirements. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed by the student. The advisor will place a memorandum outlining the course of study in the student's file. Students are expected to complete the probationary course of study within two consecutive semesters and one summer. Students who complete the probationary course of study within the allotted time with a cumulative GPA (for the course of study only) of at least 2.00 will be removed from probation.

#### **Biological Sciences Major:**

**Course requirements:** Biological Sciences majors must complete a set of required 100-level science, math, and composition classes with a satisfactory grade before they can enroll in more advanced 300- and 400-level biology classes. In the first two semesters the typical student will complete the seven biology, chemistry, math, and composition courses listed below with a C or better (C- is not sufficient) as a prerequisite for enrollment in any upper division biology course. These courses, which satisfy university and science major requirements (25 credits), are typically taken in the freshman year:

- BIOL 196 and BIOL 197
- CHEM 121A, 121L and CHEM 122A, 122L
- MATH 181 or MATH 127 or MATH 128
- ENG 102 or ENG 114 or HON 100

With satisfactory completion of these classes ("C" or better in each class), students will be able to enroll in 300- and 400-level biology classes, subject to any additional prerequisites listed in the course catalog.

If a student does not earn a "C" or better the first time they take a required course, it is expected that they will repeat the course one time and utilize available resources to improve their academic performance. Continuation as a biology major requires a C or better (C- is not sufficient) in each course (or equivalent transferred from another institution).

**Transfer Policies:** Transfer students must have a minimum GPA of 2.50. All students are required to meet with an advisor to determine course work that can be used to satisfy degree requirements. Biology, chemistry, physics and math transfer courses will be accepted to fill specific degree requirements only with a grade of C or better.

Although rare, it is possible for superior pre-professional students to gain admission to a professional school upon completion of 94 units of undergraduate work. Such students may, under certain circumstances, be awarded a baccalaureate degree from UNLV upon successfully completing one year of full-time study with courses equivalent to the School of Life Sciences major at the professional school. To apply for a degree after one year of professional school, students must have completed 94 units at UNLV with a GPA of 3.50 and meet university and college graduation requirements. Any student contemplating such a program must obtain approval from the departmental chair and college dean in advance of departure from UNLV.

**Community College Articulation:** The School of Life Sciences has course articulation agreements with several community colleges both within and outside Nevada. For specific information about transfer of credits from two-year institutions, students should seek advising about specific courses of study from the department.

#### **Department Policies**

**Academic Policies:** In addition to the General Education Core requirements, all study courses must include a minimum of 39 credits in the Biological Sciences and satisfy the specific requirements of one of the five concentration areas offered by the department.

In accord with UNLV requirements, at least 40 credits must be earned in upper-division-level courses. This requirement may be satisfied by selecting courses within and outside the School of Life Sciences.

To graduate with a degree in the biological sciences, a GPA of at least 2.00 must be maintained for all courses in the major field (BIOL). All BIOL core courses taken (BIOL 196, 197, 300 or 304, 351, and 415) must be passed with a grade of C- or better to fulfill prerequisites for other upper-division courses and to apply to the B.S. degree in Biological Sciences.

BIOL 100, 104, 109, 113, 189, 120, 121, 122, 148, 208, 220, 223, and 224 are designed for non-biology majors and do not fulfill the School of Life Sciences curricular requirements. Although these credits will apply to the general university total credit requirement; or might be required or advised for other programs or career tracks (e.g., primary or secondary teaching), they are not recommended for Biological Sciences majors and do not fulfill any requirements for the biology major. The faculty of the School of Life Sciences urge all new majors in the department to enroll in and promptly complete fundamental course work, which will serve as a foundation for success in the study of the life sciences. By the end of the second full year of study (or its equivalent), Biological Sciences Instructors will expect that Biological Sciences majors in all concentrations will have completed: ENG 101 and 102; MATH 127, 128 or MATH 181; CHEM 121A and CHEM 122L and CHEM 122A and CHEM 122L; and PHYS 151/151L and 152/152L (or the equivalent from the PHYS 180 series). BIOL course content will reflect these expectations.

## Advisement

All pre-majors and majors in the School of Life Sciences are required to meet with an advisor once a year at the College Advising Center located in Paul McDermott Physical Education Building. Students who fail to meet with an advisor will not be able to register for courses in the fall semesters.

**Note:** Requirements for the major have been revised. The new requirements apply to biology majors in the class of Fall 2014 and later. Students in prior classes follow the requirements that were in place when they entered the program. Students needing help in bridging gaps between old and new programs should contact the School of Life Sciences office (WHI 101).

## Biology

Degree Requirements.....Total: 120 Credits  
 General Education Requirements..... Subtotal: 33-37 Credits  
 First-Year Seminar .....Credits: 2-3  
 (see note 1 below)  
 English Composition ..... Credits: 6  
 • ENG 101 - Composition I  
 • ENG 102 - Composition II  
 Second - Year Seminar..... Credits: 3  
 Constitutions .....Credits: 4-6  
 Mathematics  
 • MATH 181 - Calculus I - Fulfilled by the major requirement  
 Distribution Requirement..... Credits: 18  
 Please see Distribution Requirements for more information.  
 • Humanities and Fine Arts: ..... 9 Credits  
 • Two courses 3 credits each from two different humanities areas.....6 credits  
 • One course in fine arts- 3 credits  
 • Social Science:..... 9 Credits  
 • One course each from three different fields.  
 • Life and Physical Sciences and Analytical Thinking:  
 • Automatically satisfied by Major requirements

Multicultural and International

(see note 2 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

**Major Requirements - BS in Biology - Cell and Molecular Biology Concentration** .....Subtotal: 77 Credits  
 (see note 1-6 below)

Biology Core Requirements ..... Credits: 19

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses..... Credits: 34

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Recommended Course

- MATH 182 - Calculus II

Cell and Molecular Biology Concentration - Credits: 24

- CHEM 475 - Biochemistry II

A minimum of four courses from list below:

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 453 - Immunology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 478 - Genetics and Cell Biology of Cancer

Remaining credits (to total of 24) selected from course focus lists A-C with a minimum of one course from each list A-C.



### List A: Focus on Cell Structure and Function

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 485 - Microbial Genetics

### List B: Focus on Organismal Structure and Function

- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 453 - Immunology
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

### List C: Focus on Biological Diversity

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Electives..... Credits: 10

Total Credits: ..... 120

### Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above)

### Major Requirements - BS in Biology - Ecology and Evolutionary Biology Concentration - Subtotal: 77 Credits

(see note 1-6 below)

Biology Core Requirements ..... Credits: 19

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses ..... Credits: 34

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Recommended Courses

- MATH 182 - Calculus II
- CHEM 475 - Biochemistry II

Biology - Ecology and Evolutionary

Biology Requirements ..... Credits: 24

- BIOL 341 - Principles of Ecology

A minimum of three courses from list below:

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Remaining credits (to total of 24) selected from course focus lists A - C.

Overall minimum of one course from each list A - C

**List A: Focus on Cell Structure and Function**

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 485 - Microbial Genetics

**List B: Focus on Organismal Structure and Function**

- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 453 - Immunology
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

**List C: Focus on Biological Diversity**

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Electives..... Credits: 10

Total Credits: ..... 120

**Notes:**

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

**Major Requirements - BS in Biology - Integrative Physiology Concentration.....**

Subtotal: 77 Credits  
(see notes 1-6 below)

Biology Core Requirements ..... Credits: 19

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses..... Credits: 34

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Other Recommended Courses

- CHEM 475 - Biochemistry II
- MATH 182 - Calculus II

Integrative Physiology Requirements..... Credits: 24

- BIOL 445 - Cell Physiology

Choose two courses from the following:

- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology

Remaining credits (to total of 24) selected from course focus lists A-C.

Overall minimum of one course from each list A-C

**List A: Focus on Cell Structure and Function**

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 485 - Microbial Genetics

**List B: Focus on Organismal Structure and Function**

- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy

- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 453 - Immunology
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

### **List C: Focus on Biological Diversity**

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Electives..... Credits: 10

Total Credits: ..... 120

### **Notes:**

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

### **Major Requirements - BS in Biology - Microbiology Concentration** .....Subtotal: 77 Credits (see notes 1-6 below)

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived, and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Course ..... Credits: 34

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Other Recommended Courses

- CHEM 475 - Biochemistry II
- MATH 182 - Calculus II

Microbiology Concentration ..... Credits: 24

A minimum of three courses from list below:

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 418 - Microbial Ecology
- BIOL 453 - Immunology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 470 - Topics in Applied Microbiology
- BIOL 485 - Microbial Genetics

Remaining credits (to total of 24) selected from course focus lists A - C.

Overall minimum of one course from each list A - C

### **List A: Focus on Cell Structure and Function**

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer
- BIOL 485 - Microbial Genetics

### **List B: Focus on Organismal Structure and Function**

- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 453 - Immunology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

### **List C: Focus on Biological Diversity**

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology

- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics

Electives..... Credits: 10

Total Credits: ..... 120

### Notes:

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international requirements except one course cannot satisfy both the multicultural and the international requirements.
3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 4 credits of BIOL 492 may be used toward concentration total of 24 credits.
5. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
6. At least 40 credits must be earned at the upper-division level (300 and above).

### Major Requirement - BS in Pre-Professional

**Concentration** .....Subtotal: 77 Credits  
(see notes 1-6 below)

Biology Core Requirements ..... Credits: 19

- BIOL 196 - Principles of Modern Biology I
- BIOL 197 - Principles of Modern Biology II
- BIOL 300 - Principles of Genetics

or

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 415 - Evolution

Students with strong high school preparation in biology (honors or AP biology courses with lab or the equivalent) and who have achieved a score of 5 on the AP Biology exam may have either BIOL 196 or BIOL 197 lectures waived and the appropriate lab completed at UNLV (see the Advising Center before enrolling in classes).

Other Required Courses..... Credits: 36

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 241L - Organic Chemistry for Life Sciences Lab I
- CHEM 242 - Organic Chemistry II
- CHEM 242L - Organic Chemistry for Life Sciences Laboratory II
- CHEM 474 - Biochemistry I
- CHEM 475 - Biochemistry II

- MATH 181 - Calculus I
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 491 - Statistics for Scientists I
- PHYS 151 - General Physics I
- PHYS 152 - General Physics II

Recommended Course

- MATH 182 - Calculus II

Pre-Professional Requirements..... Credits: 20

A minimum of six courses from focus course lists A, B, and C (total of 20 credits) selected from course focus lists A - C.

Overall minimum of one course from each list A - C

### List A: Focus on Cell Structure and Function

- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 425 - Genomics
- BIOL 445 - Cell Physiology
- BIOL 460 - Microbial Physiology
- BIOL 464 - Bacterial Pathogenesis
- BIOL 466 - Developmental Biology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 478 - Genetics and Cell Biology of Cancer

### List B: Focus on Organismal Structure and Function

- BIOL 348 - Introduction to Human Anatomy
- BIOL 414 - Endocrinology
- BIOL 417 - Biochemical Adaptations
- BIOL 426 - Plant Anatomy
- BIOL 453 - Immunology
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 451 - Comparative Vertebrate Anatomy
- BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics
- BIOL 468 - Histology

### List C: Focus on Biological Diversity

- BIOL 301 - Fossil Record
- BIOL 305 - Introduction to Conservation Biology
- BIOL 320 - Invertebrate Zoology
- BIOL 341 - Principles of Ecology
- BIOL 412 - Molecular Evolution
- BIOL 418 - Microbial Ecology
- BIOL 427 - Bryology
- BIOL 432 - Herpetology
- BIOL 434 - Mammalogy
- BIOL 438 - Soil Plant Water Relations in Arid Environments
- BIOL 441 - Field Ecology
- BIOL 444 - Principles of Plant Ecology
- BIOL 486 - Animal Behavior
- BIOL 487 - Principles of Systematics
- BIOL 490 - Biogeography

Electives..... Credits: 11

Total Credits: ..... 120

### Notes:

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Every student must complete a multicultural course and an international course. Courses satisfying other requirements may simultaneously satisfy the multicultural and international



requirements except one course cannot satisfy both the multicultural and the international requirements.

3. It is strongly recommended that students interested in biomedicine or attending graduate school take additional appropriate upper-division biology courses and research units to meet their elective credit requirements.
4. Up to 2 credits total of BIOL 494 and/or BIOL 499 may be used as electives to satisfy 120 credit total.
5. At least 40 credits must be earned at the upper-division level (300 and above).

## Minor

### Biology Minor

Courses Include ..... Total Credits: 24

The Biological Sciences Minor is appropriate for all students with interests in the life sciences and especially for those who seek careers that may be enhanced by a background in biology. These include, but are not limited to, biochemistry, chemistry, geology, psychology, anthropology, and sociology. To minor in Biological Sciences, students must complete the biological sciences core;

BIOL 189 - Fundamentals of Life Science

BIOL 196 - Principles of Modern Biology I

BIOL 197 - Principles of Modern Biology II

and 12 upper-division credits. A genetics course, either BIOL 300 - Principles of Genetics or BIOL 304 - Molecular Genetics and BIOL 415 - Evolution are recommended. No more than three credits of independent study (BIOL 492, 493, 494, 496,) may be applied toward the minor. A Biological Sciences Minor will be awarded only if the overall Biology GPA is 2.00 or above. At least nine credits must be earned at UNLV.

## School of Life Sciences

### BIOL 100 - General Biology for Non-Majors

Introduction to biology of the human species. For non-majors; emphasizing those aspects of structure, function, ecology, and evolution which provide a biological perspective for problems facing modern society. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a laboratory science course. 4 credit(s)

### BIOL 103 - Biology Laboratory

Laboratory portion of either BIOL 100 or BIOL 189, for students who have had course work without a laboratory at a previous institution. Prerequisite(s): Credits for the lecture portion of either majors or non majors entry-level course and consent of instructor. Note(s): For transfer students only. 1 credit(s)

### BIOL 104 - Introduction to Human Ecology

Focusing on natural processes that determine where organisms occur and how they change through time, this course for non-science majors will provide introductions to ecology, biogeography, and evolution. The principles learned will be used to understand interrelationships between humans and other organisms and address global issues such as emergent diseases, invasive species, changing landscapes, and wildlife conservation. 3 credit(s)

### BIOL 111 - Water, People and the Environment

An introduction to the study of water resources on a local, regional and global scale for non-science students. Special emphasis will be given to how people and societies develop water resources and the environmental consequences of that development. The course will include lectures, readings, videos, class discussions, and local field trips. 3 credit(s)

### BIOL 113 - Life in the Ocean

Introduction to the environments and inhabitants of the sea. 3 credit(s)

### BIOL 120 - Plants and People

Introduction for non-biology majors to the social, cultural, and economic role of useful and harmful plants and plant products in modern society. Consideration given to the origin, history, and human value of selected plants, especially those used for food, medicine, and industrial raw materials, or religious purposes. 3 credit(s)

### BIOL 121 - Human Nutrition

(Same as NUTR 121). Description of the nature and role of carbohydrates, lipids, proteins, water, vitamins, and minerals in the human body. Energy relations and various controversies in nutrition examined, as well as the relationships among nutrition, health, and disease. 3 credit(s)

### BIOL 122 - Desert Plants

Study of typical desert plant communities, along with the identification of more common species. Additional topics include morphological and physiological adaptations to aridity; and the nature, origin, and occurrence of arid environments. Lab/Lecture/Studio Hours Two hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a laboratory science course. 3 credit(s)

### BIOL 123 - Human Nutrition Laboratory

Laboratory exercises are employed to examine the nature and role of nutrients in the human body and energy relationships. Contemporary controversies in nutrition examined in relation to nutrition, health and disease. Corequisite(s): BIOL 121. Prerequisite(s): ENG 101. 1 credit(s)

### BIOL 148 - Natural History of the Desert Southwest

Introduction for biology non-majors to the desert environments of the American Southwest. Includes the study of climate, geology, plants, animals, and man in desert regions. Includes field trips. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a laboratory science course. 4 credit(s)

### BIOL 189 - Fundamentals of Life Science

Survey of contemporary biology; includes structure, function, interactions and evolutionary origins of living systems. For Biological Sciences majors and others who require biology as part of their professional career preparation. Note(s): Satisfies General Education Core requirements for laboratory sciences. Aligned with State of Nevada life science content standards for K-8 certification. 4 credit(s)

### BIOL 196 - Principles of Modern Biology I

Structural and chemical nature of cells, complex organisms and cellular environments. Transmission and molecular genetics, cell communication, reproduction and energetics. For Biological Sciences majors and others pursuing advanced study in biology. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a laboratory science course. 4 credit(s)

### BIOL 197 - Principles of Modern Biology II

Whole-organism biology in an evolutionary context; biodiversity, structure, function and reproduction of prokaryotic and eukaryotic organisms. Evolutionary and ecological pattern and process. For Biological Sciences majors and others pursuing advanced study in biology. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a laboratory science course. 4 credit(s)

### BIOL 208 - Introduction to Human Genetics

For non-majors. Aspects of human inheritance and evolution considered. Prerequisite(s): BIOL 100 or BIOL 189. 3 credit(s)

### BIOL 220 - Introduction to Ecological Principles

Introduction for environmental science students to the major ecological principles at work in the environment. Focuses not only on these principles but also on understanding the processes that underlie them. Prerequisite(s): ENS 100 for Environmental Studies majors, and BIOL 197 for BIOL majors. 3 credit(s)

### **BIOL 223 - Human Anatomy and Physiology I**

Review of the basic organization of human cells and tissues and the structure and function of the skeletal, muscular, nervous, and sensory systems. Prerequisite(s): Grade of C or better in BIOL 189 or BIOL 196 or BIOL 197 and BIOL 189. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **BIOL 224 - Human Anatomy and Physiology II**

Structure and function of the human digestive, circulatory, urogenital, and endocrine systems. Prerequisite(s): BIOL 189, BIOL 223. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **BIOL 251 - General Microbiology**

Survey of general microbiology including microbiological prokaryotic cell structure and function with an emphasis on microorganisms that associate with humans. Prerequisite(s): BIOL 189, CHEM 110 or CHEM 121A and CHEM 121L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Credit not allowed in both BIOL 251 and BIOL 351. 4 credit(s)

### **BIOL 300 - Principles of Genetics**

Study of the transmission of traits from one generation to the next, the structure and function of genes, and the variation of genes between and within populations. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **BIOL 301 - Fossil Record**

History and evolution of life as recorded in the fossil record. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

### **BIOL 302 - Evolutionary Survey of Vascular Plants**

Evolutionary survey of vascular plants: their classification, appearance in geologic time, comparative life cycles and morphological characteristics. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **BIOL 304 - Molecular Genetics**

Comprehensive survey course designed to cover the basic principles that deal with the physical and chemical nature of genes. Specific topics include the structure/function of genes, genome organization, DNA replication and recombination, protein synthesis, regulation of gene expression, chromatin structure, epigenetic effects, and genetic engineering. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): Required concurrent registration in Molecular Genetics Discussion, BIOL 304D. 4 credit(s)

### **BIOL 305 - Introduction to Conservation Biology**

Fundamental issues in conservation biology including biodiversity, invasive and endangered species, reserve design, and environmental legislation to provide a scientific examination of the biological underpinnings of conservation issues. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

### **BIOL 320 - Invertebrate Zoology**

Discussion of the taxonomy, morphology, and physiology of the phyla and classes of invertebrate animals, including some ecological and phylogenetic relationships. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Two hours lecture and three hours laboratory. 4 credit(s)

### **BIOL 341 - Principles of Ecology**

Fundamentals of ecology and levels of population, community, and ecosystem. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture. 3 credit(s)

### **BIOL 345 - Urban Horticulture**

New field of urban horticulture, which deals with how plants respond to urban stresses. Includes readings on and discussion of the following topics: plant sciences and development, horticultural practices, and stress physiology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

### **BIOL 348 - Introduction to Human Anatomy**

Consideration of human anatomical systems - structure, composition, gross function, development and origins. Fundamental principles of anatomy including gross, microscopic, developmental and evolutionary aspects. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Two 75 minute lectures per week. 3 credit(s)

### **BIOL 351 - Microbiology**

Microbial systems provides in-depth coverage of prokaryotic cell structure, function, genetics, diversity, ecology, and pathogenesis, with an emphasis on microbial metabolism, bacterial genetics and molecular mechanisms. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Credit not allowed in both BIOL 251 and BIOL 351. 4 credit(s)

### **BIOL 360 - Introduction to Biomathematics I**

Introduction to the interdisciplinary field of biomathematics; mathematical models of biological systems; applied numerical methods and computer software for solving mathematical models. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): Same as MATH 360. 3 credit(s)

### **BIOL 361 - Introduction to Biomathematics II**

A continuation to the study of biomathematics; part two will consider more advanced mathematical models of biological processes associated with advection, diffusion and pattern formation; computational methods for solving partial differential equations. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): Same as MATH 361. 3 credit(s)

### **BIOL 402 - Great Biological Discoveries**

Students will read original research articles and critically examine 25 of the most important biological discoveries of all time. Students will learn the basic skills of a structured approach to critically examine data, develop hypotheses, challenge the interpretation of results, identify valid conclusions, and discuss the significance of conclusions and research. The course will help students understand the origins of different biological fields and develop a "big picture" view of science. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and a 300- or 400-level. 3 credit(s)

### **BIOL 405 - Molecular Biology**

Introductory molecular biology. Study of genes and their activities at the molecular level, including transcription, translation, DNA replication, and recombination. Concepts of molecular biology presented along with experimental strategies and data that led to those concepts. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 300 or CHEM 474. Note(s): This course is crosslisted with BIOL 607. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 409 - Virology**

Systematic examination of animal, plant, and bacterial viruses including their structure and genome organization, their reproduction and assembly, and their effects on host organisms. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 351. 3 credit(s)

### **BIOL 412 - Molecular Evolution**

Molecular evolution of genes and genomes. Origin of life from the prebiotic soup through the RNA world to current DNA replication systems. Determination of the universal tree of life by inferring molecular phylogenies of genes and proteins. Emphasis on evolution by duplication, recombination, and transposition. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, ; BIOL 300 or BIOL 304, BIOL 415. 3 credit(s)

### **BIOL 413 - Introduction to Scientific Writing**

This course introduces students to scientific writing for those intending to publish manuscripts, technical reports, or academic papers in the sciences. Writing techniques, published literature, and student writing examples are presented and evaluated. Students will improve their writing skills and learn to critique published writing samples. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and One upper division course from any of the following: BIOL, CHEM, GEOL, PHYS, MATH, and permission of instructor. 2 credit(s)

### **BIOL 414 - Endocrinology**

(Same as CHEM 478.) Survey of the structure and function of vertebrate endocrine systems, with emphasis on the biochemical basis of hormone action and the role of cell communication in endocrine physiology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. CHEM 474 recommended. Note(s): Same as CHEM 478. This course is crosslisted with BIOL 648. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 415 - Evolution**

Introduction to evolutionary biology, focusing on the processes that have been (and are currently) responsible for the generation and maintenance of biological diversity. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and BIOL 300 or BIOL 304. 3 credit(s)

### **BIOL 416 - Bioinformatics**

This class covers basic principles in bioinformatics, as well as Perl programming, algorithms, databases, and use of many bioinformatics resources. In class "laboratory" exercises reinforce these topics with hands-on activities and individual/group learning exercises. The class emphasizes a conceptual and practical understanding of bioinformatics applied to biological systems at the molecular, cellular, and organismal level. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and at least one 300-level or 400-level BIOL class; or by consent of the instructor. 3 credit(s)

### **BIOL 417 - Biochemical Adaptations**

Exploration of biochemical and molecular characteristics that appear to be adaptive for organisms in their respective environments. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 445. Lab/Lecture/Studio Hours Three hour lecture. 3 credit(s)

### **BIOL 418 - Microbial Ecology**

Study of microbes as individuals, populations, and communities in freshwater, marine, and terrestrial environments. Topics such as nutrient cycling, biodegradation, and biotechnology discussed from an ecological standpoint. Prerequisite(s): Grade of C or better in each of the following: BIOL 196,

BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127. Note(s): This course is crosslisted with BIOL 618. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 422 - Taxonomy of Vascular Plants**

Study of the evolutionary relationships of the principal orders, families and genera; systems of classification; collection and identification of local flora. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Two hours lecture and six hours laboratory. 4 credit(s)

### **BIOL 425 - Genomics**

Study of the sequencing, assembling and annotating of genomes. Examination of new approaches that integrate genetics, molecular biology, and computer sciences to answer biological questions in novel ways. Applications of genomics, proteomic and bioinformatic technologies in medical researches. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and BIOL 405. Note(s): This course is crosslisted with BIOL 625. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 426 - Plant Anatomy**

Study of the basic structure of plant organs and tissues, particularly with regard to relationships between structure and function. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Two hours lecture and four hours laboratory. Note(s): This course is crosslisted with BIOL 626. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 427 - Bryology**

Biology of mosses, including taxonomy, morphology, reproduction, speciation, desiccation tolerance, resource transfer, spore biology, and biology of the ecologically important soil crusts. Arid environments highlighted. Lab focuses on local identification and includes field trips. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

### **BIOL 431 - Ichthyology**

Study of biology of fishes, including morphology, physiology, ecology, and evolution. Emphasis on local fish, field work with state and federal agency biologists. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture, three hours laboratory, some overnight or weekend field trips. 4 credit(s)

### **BIOL 432 - Herpetology**

Introduction to various aspects of the ecology, behavior, and evolution of recent amphibians and non-avian reptiles. In the laboratory students will learn diagnostic characteristics, some functional attributes, and aspects of the natural history of recent amphibians and non-avian reptiles, particularly of species from southwestern North America. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121, CHEM 122, ENG 101, ENG 102, and MATH 127 or higher. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): This course is crosslisted with BIOL 632. Credit at the 600-level requires additional work. 4 credit(s)

### **BIOL 433 - Ornithology**

Principles of avian biology and evolution. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Laboratory sessions involve bird identification and include field trips. Two hours lecture and six hours laboratory. Note(s): This course is crosslisted with BIOL 633. Credit at the 600-level requires additional work. 4 credit(s)



**BIOL 434 - Mammalogy**

Study of mammalian biology, evolution, and ecology, with attention to issues in mammal conservation biology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory with possible weekend and overnight field trips. 4 credit(s)

**BIOL 437 - Entomology**

Introduction to the principles of insect classification and biology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

**BIOL 438 - Soil Plant Water Relations in Arid Environments**

The class will cover soil plant water relationships relevant to arid environments under limited water resources. Topics that will be discussed in detail include; the hydrologic cycle, water properties, soil physical and Chemical properties, environmental demand, plant stress associated with drought and salinity, water quality and irrigation management as it relates to plant growth and productivity. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours The class will be taught in a lecture/lab format. Note(s): This course is crosslisted with BIOL 638. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 440 - Mammalian Physiology**

Principles of mammalian physiology, normal functioning of mammalian body as a whole, and interrelationships of organs and organ systems. Emphasis on physiological processes and their interrelationships. Corequisite(s): CHEM 242 and CHEM 242L. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181, and CHEM 241 and CHEM 241L. 3 credit(s)

**BIOL 441 - Field Ecology**

Introduction to ecological research. Weekly field projects emphasize population biology, interactions among species, and ecosystem processes. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 220 or BIOL 341 or consent of instructor. Lab/Lecture/Studio Hours Six hours of combined lecture and field or laboratory work. Note(s): This course is crosslisted with BIOL 641. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 442 - Principles of Plant Physiology with Laboratory**

Introduction to the basic physiological processes in plants: metabolism, nutrition, growth, and development. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; CHEM 241 and CHEM 241L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): This course is crosslisted with BIOL 642. Credit at the 600-level requires additional work. 4 credit(s)

**BIOL 444 - Principles of Plant Ecology**

Introduction to the ecology of wild plants, particularly structure, ecology of populations, interactions of plants with their environment and other organisms, and survey of the major global vegetation types. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 341 or consent of instructor. Note(s): This course is crosslisted with BIOL 644. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 445 - Cell Physiology**

Cell physiology provides an understanding of the basic processes of eukaryotic cells and their relationship to cellular ultrastructure. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): This course is crosslisted with BIOL 645. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 447 - Advanced Comparative Animal Physiology**

Comparative physiology provides a detailed understanding of the diverse array of physiological systems evolved to allow animals to function in various environments. The comparative approach is used to understand physiological adaptations to various environments and the evolution of physiological systems. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; CHEM 241 and CHEM 241L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 3 credit(s)

**BIOL 448 - Mammalian Physiology Laboratory**

Practical experience with physiological techniques. Emphasis on the integration of tissue, organ, and organ system physiological functions. Corequisite(s): BIOL 440 or BIOL 447. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 1 or 2 credit(s)

**BIOL 449 - Comparative Nutrition**

Explore the diversity and complexity of systems that have evolved to adequately support energy requiring processes for life. Topics range from the evolution of digestive systems in a wide array of organisms (single celled, plants and animals) to the development of, for example, simple, complex, and ruminant digestive systems. Methods of acquiring, processing and utilizing nutrients for growth, maintenance and metabolism, including performance are also discussed. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

**BIOL 451 - Comparative Vertebrate Anatomy**

The companion laboratory course of BIOL 455. Hands-on dissection of specimens representing major vertebrate groups. Numerous demonstration specimens sample the diversity of fishes, amphibians, and amniotes. Review of fossil vertebrates with emphasis on phylogenetic relationships. Corequisite(s): BIOL 455. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Three hours lecture and six hours laboratory. Note(s): This course is crosslisted with BIOL 651. Credit at the 600-level requires additional work. 2 credit(s)

**BIOL 452 - Comparative Behavioral Endocrinology**

Explores the relationships between hormones, brain and behavior in invertebrate and vertebrate animals. Discussion of the effects of hormones on development and behavior; how behavior and the nervous system influence endocrine physiology and how hormones influence the timing of physiological and behavioral events. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 414 or BIOL 486. 3 credit(s)

**BIOL 453 - Immunology**

Study of the immune response, cell-mediated and humoral. Topics include the diversity of antibodies and antigen receptors, evolution of immunity, cell-cell interactions, importance of major histocompatibility complex immune regulation, and immunity to microorganisms. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. 3 credit(s)

**BIOL 455 - Comparative Vertebrate Anatomy and Biomechanics**

Examines structure-function relationships in the context of vertebrate evolution. Tissues and structures of the integumentary, skeletal, and muscular system are emphasized. Biomechanics of materials, structures, and movements are related to adaptations of vertebrates to life in their physical worlds. Corequisite(s): BIOL 451. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): This course is crosslisted with BIOL 655. Credit at the 600-level requires additional work. 3 credit(s)



**BIOL 460 - Microbial Physiology**

Exploration of the major aspects of microbial physiology, including structure and growth of bacteria, generation of ATP and intermediary metabolism, synthesis of macromolecules and cellular components, and coordination of intracellular activities. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 351, CHEM 241 and CHEM 241L. Lab/Lecture/Studio Hours Three hours lecture. Note(s): This course is crosslisted with BIOL 660. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 464 - Bacterial Pathogenesis**

Addresses the molecular mechanisms by which bacterial pathogens cause disease. Basic principles of bacterial pathogenesis will be considered before a survey of bacterial pathogens and their specific virulence factors is conducted. Includes aspects of bacterial genetics, physiology, immunology, and the cell biology of host-parasite interactions. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 351. Note(s): This course is crosslisted with BIOL 664. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 465 - Vertebrate Embryology**

Development of vertebrates, with emphasis on amphibians, birds, and mammals. Considerations of gametogenesis, fertilization, cleavage, early morphogenesis, and organogenesis included. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Lab/Lecture/Studio Hours Two hours lecture and six hours laboratory. Note(s): This course is crosslisted with BIOL 665. Credit at the 600-level requires additional work. 4 credit(s)

**BIOL 466 - Developmental Biology**

Development biology from the perspective of evolutionary biology and embryology and genetics. Elucidation of general principles about the genetic basis of morphologic changes and regulatory mechanisms, the genetics toolkit for development of model species, and the regulation and function of these genes in the complex hierarchies that govern animal development. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 or BIOL 304 and BIOL 405 or CHEM 474. Note(s): This course is crosslisted with BIOL 666. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 468 - Histology**

Microscopic structure and function of vertebrate tissues with emphasis on mammals. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): This course is crosslisted with BIOL 668. Credit at the 600-level requires additional work. 4 credit(s)

**BIOL 470 - Topics in Applied Microbiology**

Applications may include bioremediation, food, agriculture, pharmaceuticals, vaccine development, water treatment, or genetic engineering. Presentation and discussion of current literature. Topics published in the class schedule. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and BIOL 351. Note(s): Maximum of two different topics may be selected for a total of six credits. This course is crosslisted with BIOL 670. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 471 - Aquatic Ecology**

Principles of aquatic ecology including physical, chemical and biotic attributes - and their interactions - relating to both freshwater and marine systems. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 122A, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 341 and CHEM 122A and consent of instructor. Note(s): This course is crosslisted with BIOL 671. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 473 - Advanced Topics in Cell and Molecular Biology**

Discussion of current literature on a specific topic in cell and molecular biology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and consent of instructor. Note(s): Topics published in the class schedule. 3 credit(s)

**BIOL 475 - Neurobiology**

Introduction to the neurosciences, emphasizing cellular, molecular, and physiological aspects. Establishes a foundation of cellular neurobiology and moves on to selected topics in the organization, function, and development of neural systems. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300. 3 credit(s)

**BIOL 478 - Genetics and Cell Biology of Cancer**

This course examines the molecular mechanisms underlying carcinogenesis, tumorigenesis, and metastasis with a heavy emphasis placed on advanced genetic concepts that underlie basic cell biology. The class utilizes a multi-disciplinary approach to learning that includes a mixture of formal lectures, student presentations, and class discussions. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 or BIOL 304 and BIOL 445. 3 credit(s)

**BIOL 480 - Introduction to Biological Modeling**

Introduction to the modeling of biological systems and processes through the use of computers. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): This course is crosslisted with BIOL 680. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 481 - Advanced Cell Biology**

Advanced topics in cell and molecular biology, including membrane structure and function, cytoskeleton, signal transduction, and current research methods. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 101, ENG 102, and and MATH 127 or 128 or 181; CHEM 474. 3 credit(s)

**BIOL 485 - Microbial Genetics**

Examines genetics of prokaryotic microorganisms, including induction of mutations and selection of mutants, alternative processes of genetic exchange and gene mapping, and gene organization and regulation. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300 and BIOL 351. Lab/Lecture/Studio Hours Three hours lecture. Note(s): This course is crosslisted with BIOL 685. Credit at the 600-level requires additional work. 3 credit(s)

**BIOL 486 - Animal Behavior**

Evolutionary analysis of vertebrate and invertebrate behavior. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; 3 credit(s)

**BIOL 487 - Principles of Systematics**

Principles and applications of methods used to reconstruct history and biotic diversity among genes, species, and higher taxa. Considers several approaches to tree construction and significance of phylogenetic history within the context of evolution, biogeography, and conservation biology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): Emphasis on molecular approaches to systematics. This course is crosslisted with BIOL 687. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 489 - Developmental Genetics**

Topics in molecular genetics of developmental processes explored through current literature. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; BIOL 300, and BIOL 405 or CHEM 474. May be repeated to a maximum of six credits. 3 credit(s)

### **BIOL 490 - Biogeography**

Study of distributional patterns of plant and animal groups, including consideration of theories and principles, derived from a variety of disciplines, related to those patterns. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Note(s): This course is crosslisted with BIOL 690. Credit at the 600-level requires additional work. 3 credit(s)

### **BIOL 492 - Undergraduate Research**

Special problems in some field of the biological sciences for investigation and report. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181 or two years of biological sciences and consent of instructor. May be repeated to a maximum of eight credits. 1-3 credit(s)

### **BIOL 493 - Undergraduate Seminar**

Preparation and presentation of seminars on topics of current interest in biology. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181. Two years of biological sciences and consent of instructor. May be repeated to a maximum of three credits. Note(s): Topic changes by semester; see class schedule. 1 credit(s)

### **BIOL 494 - Biology Colloquium**

Analysis and critique of topics as presented by speakers drawn from the national biological research community. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; Two years of biological sciences. May be repeated to a maximum of three credits. Note(s): S/F grading only. 1 credit(s)

### **BIOL 496 - Advanced Topics in Modern Biology**

Advanced study in a specialized area of biology. Topics selected and published in class schedule. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181 and consent of instructor. Note(s): Maximum of three different topics may be selected for a total of six credits. 1-3 credit(s)

### **BIOL 498 - Scientific Presentations**

Seminar for undergraduate students conducting research projects on any biological discipline. Gives students advice and provides them with practical experience on giving oral and written presentations. Discussion of principles of good visual communication and demonstrations of good and poor selections. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; and consent of instructor. 1-2 credit(s)

### **BIOL 499 - Instruction in Biological Sciences**

Significant involvement in instruction of courses in biological sciences. May include laboratory preparation, instruction, and grading. Prerequisite(s): Grade of C or better in each of the following: BIOL 196, BIOL 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, ENG 102 or ENG 114 or HON 100, and MATH 127 or 128 or 181; consent of instructor. May be repeated to a maximum of two credits. Note(s): S/F grading only. 1-2 credit(s)

## **Chemistry**

### ***Purpose and Focus***

The science of chemistry deals with the composition, analysis, structure, and properties of matter and the various transformations matter may undergo. Chemical processes are at the heart of many diverse systems that are of great interest to mankind, including biological functions, the natural and polluted environment, industrial processes, biotechnology, food and agriculture, mining technology, etc. The Bachelor of Arts degree is designed to allow a student sufficient flexibility to obtain expertise in a discipline other than chemistry so that chemical knowledge can be applied to another field. The Bachelor of Science degree is an accredited program that requires more chemistry, math, and physics than the Bachelor of Arts degree and is intended for students wishing to pursue a career in chemistry. The Bachelor of Science degree in Biochemistry is intended to provide a student with the theoretical and technical skills necessary for employment in industry or to pursue a graduate degree in biochemistry or a related field.

### ***Accreditation***

Northwest Commission on Colleges and Universities  
American Chemical Society (B.S. in Chemistry)

### ***Undergraduate Majors***

Biochemistry-Bachelor of Science  
Chemistry-Bachelor of Arts  
Chemistry-Bachelor of Science

### ***Areas of Concentration***

Education  
Environmental Chemistry

### **Early Admit Fast-Track Program with UNLV — School of Dental Medicine**

This program expedites the process of earning a doctor of dental medicine degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the DAT and apply to UNLV — School of Dental Medicine (UNLV-SDM) through the Associated American Dental School Application Service (AADSAS). Participation in this early-admit program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to UNLV-SDM matriculate following completion of the third year at UNLV. Course work completed at UNLV-SDM during the first year is transferred to UNLV to complete the Bachelor of Arts in Chemistry. The net result is reduction of the time required to earn the baccalaureate and DMD degrees from eight years to seven. To learn more about the specific details of this program, please contact the pre-health advisor.

### **Early Admit Fast-Track Program with Touro University — College of Osteopathic Medicine**

This program expedites the process of earning an osteopathic medical degree. Students admitted to the program complete three years of prerequisite course work at UNLV. Following completion of the second year, students take the MCAT and apply to Touro University — College of Osteopathic Medicine (TU-COM) through the

Association of American Colleges of Osteopathic Medicine Application Service (AACOMAS). Participation in this Early Admit Program does not guarantee acceptance following completion of the second year of undergraduate study. Students who are admitted to TU-COM matriculate following completion of the third year at UNLV. Course work completed at TU-COM during the first two years is transferred to UNLV to complete the Bachelor of Arts in Chemistry. The net result is reduction of the time required to earn the baccalaureate and medical degrees from eight years to seven. To learn more about the specific details of this program, please contact the pre-health advisor.

### ***Admission to the Major***

Minimum GPA: 2.50

**Admissions Policies:** Students with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. Students on probation must meet with their advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department.

**Transfer Policies:** Transfer students should first have their transcripts evaluated by the Office of the Registrar & Admissions, then schedule a meeting with the College of Sciences Advising Center. Based on the transcripts and catalog descriptions, equivalencies to UNLV courses will be determined and a plan for completion of the degree developed. In cases of questions regarding the transferability of a particular course, satisfactory performance (i.e., a grade of C or better) by a student in a higher numbered UNLV chemistry course for which the proposed UNLV transfer course is a prerequisite shall be accepted as proof that the student has mastery of the course content and the student shall be awarded transfer credit.

### ***Department Policies***

**Academic Policies:** Majors may count no more than one grade of D in chemistry courses toward meeting degree requirements. Chemistry courses taken more than eight years prior to the proposed date of graduation are subject to review by the department, and at the discretion of the department, such courses may not be allowed for application to a degree program. Students potentially affected by this policy should meet with the department chair.

**Minors:** No grade lower than a C (i.e., C- and below) may be applied to a chemistry minor. Credit toward the minor will not be allowed for both CHEM 220 and CHEM 241. At least nine credits must be earned at UNLV.

**Nonchemistry Majors:** Nonchemistry majors who seek rigorous preparation in chemistry for medical school, graduate school in other fields, or research positions should consider the sequence CHEM 121A, 121L, 122A, 122L, 241, 241L, 242, 242L, and possibly CHEM 421 and 474–475.

**Probation:** Students on probation must meet with their advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department and the College of Sciences.

### ***Advisement***

See College of Sciences Advisement section for details.

### **Biochemistry Major- Bachelor of Science (BS)**

Please see the UNLV College of Sciences, Chemistry department web page at [www.unlv.edu/chemistry/](http://www.unlv.edu/chemistry/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

### **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### **Learning Outcomes**

Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's sub-disciplines by satisfactorily completing

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally:
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist. The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.
  - Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program.
  - Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.



- Build and develop communication skills through writing laboratory reports, term papers, and presentation of seminars and poster seminars.
- Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all undergraduate programs offered. These skills are developed as students progress through the sequence of courses (meeting each course prerequisite in a well thought out and logical pattern) required for graduation in all of our programs.
- Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.
- Graduates shall be able to demonstrate technical competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.
- Graduates shall have an in-depth understanding of the theoretical basis of biochemistry, as well as areas of application of chemical principles.
- Graduates must be well versed in the language of biochemistry and should be capable of effectively communicating chemical knowledge in both written and oral forms.
- Graduates shall be able to function as chemical professionals in entry-level jobs or to succeed in graduate studies in biochemistry or related scientific fields.

### University Graduation Requirements

- Please see Graduation Policies for complete information
- Biochemistry Degree Requirements ..... Total: 120 Credits  
 General Education Requirements ..... Subtotal: 41-44 Credits  
 First-Year Seminar ..... Credits: 2-3  
 (See note 1 below)  
 English Composition ..... Credits: 6
- ENG 101 - Composition I
- and
- ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3  
 Constitutions ..... Credits: 4-6  
 Mathematics ..... Credits: 8
- MATH 181 - Calculus I
  - MATH 182 - Calculus II
- Distribution Requirements ..... Credits: 18  
 Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 Credits
    - Two courses 3 credits each from two different humanities areas 6 credits
    - One course in fine arts 3 credits
  - Social Science: 9 Credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking:
    - Automatically satisfied by Major requirements
- Multicultural and International  
 Multicultural, one 3 credit course required  
 International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Biochemistry ..... Subtotal: 83 Credits  
 Physics ..... Credits: 8  
 (see note 2)

- PHYS 151 - General Physics I
  - PHYS 152 - General Physics II
- Biology ..... Credits: 22
- BIOL 196 - Principles of Modern Biology I
  - BIOL 197 - Principles of Modern Biology II
  - BIOL 300 - Principles of Genetics

and at least ten credits from the following list of courses:

Note: Make certain the prerequisites for each course selected are met before registration, some prerequisites may not be among those courses listed.

- BIOL 304 - Molecular Genetics
- BIOL 351 - Microbiology
- BIOL 405 - Molecular Biology
- BIOL 409 - Virology
- BIOL 412 - Molecular Evolution
- BIOL 415 - Evolution
- BIOL 417 - Biochemical Adaptations
- BIOL 425 - Genomics
- BIOL 440 - Mammalian Physiology
- BIOL 442 - Principles of Plant Physiology with Laboratory
- BIOL 445 - Cell Physiology
- BIOL 447 - Advanced Comparative Animal Physiology
- BIOL 448 - Mammalian Physiology Laboratory
- BIOL 453 - Immunology
- BIOL 460 - Microbial Physiology
- BIOL 466 - Developmental Biology
- BIOL 468 - Histology
- BIOL 470 - Topics in Applied Microbiology
- BIOL 473 - Advanced Topics in Cell and Molecular Biology
- BIOL 475 - Neurobiology
- BIOL 480 - Introduction to Biological Modeling
- BIOL 481 - Advanced Cell Biology
- BIOL 485 - Microbial Genetics

and

- CHEM 478 - Endocrinology
- Chemistry Major Requirements ..... Credits: 49
- CHEM 121A - General Chemistry I
  - CHEM 121L - General Chemistry Laboratory I
  - CHEM 122A - General Chemistry II
  - CHEM 122L - General Chemistry Laboratory II
  - CHEM 241 - Organic Chemistry I
  - CHEM 242 - Organic Chemistry II
  - CHEM 347 - Laboratory Techniques of Organic Chemistry I
  - CHEM 348 - Laboratory Techniques of Organic Chemistry II
  - CHEM 355 - Quantitative Analysis
  - CHEM 355L - Quantitative Analysis Laboratory
  - CHEM 421 - Physical Chemistry I
  - CHEM 422 - Physical Chemistry II
  - CHEM 455 - Instrumental Analysis
  - CHEM 455L - Instrumental Analysis Laboratory
  - CHEM 472 - Biochemistry Laboratory
  - CHEM 474 - Biochemistry I



- CHEM 475 - Biochemistry II
  - CHEM 476 - Advanced Topics in Biochemistry
- and five additional credits of upper-division chemistry.  
Total Credits: ..... 120

## Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First-Year Seminar requirement.
2. The sequence PHYS 180 -180L, and PHYS 182 -182L is an acceptable replacement for PHYS 151, 152; any two course combination from PHYS 180, 181, and 182 is not an acceptable replacement.
3. At least 40 credits must be earned at the upper-division level (300 and above).

## Chemistry Major - Bachelor of Arts (BA)

Please see the UNLV College of Sciences, Chemistry department web page at [www.unlv.edu/chemistry/](http://www.unlv.edu/chemistry/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's subdisciplines by satisfactorily completing

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally;
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist. The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.
  - Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program. Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.
  - Build and develop communication skills through writing

laboratory reports, term papers, and presentation of seminars and poster seminars.

- Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all undergraduate programs offered. These skills are developed as students progress through the sequence of courses (meeting each course pre-requisite in a well thought out and logical pattern) required for graduation in all of our programs.
- Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.
- Graduates shall be able to demonstrate technical competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.
- Graduate shall have an in-depth understanding of the theoretical basis of chemistry, as well as areas of application of chemical principles.

## University Graduation Requirements

Please see Graduation Policies for complete information

Chemistry Degree Requirements ..... Total: 120 Credits  
General Education Requirements ..... Subtotal: 33-36 Credits  
First-Year Seminar ..... Credits: 2-3  
(See note 1 below)  
English Composition ..... Credits: 6  
• ENG 101 - Composition I  
• ENG 102 - Composition II  
Second-Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 4-6  
Mathematics  
Fulfilled by Major Requirements  
• MATH 181 - Calculus I  
• MATH 182 - Calculus II  
Distribution Requirements ..... Credit: 18  
Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science: 9 Credits
  - EPY 303 - Educational Psychology
  - and two 3 credits social science courses
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

## Major Degree Requirements - BA in

Chemistry.....Subtotal: 62 Credits

(See note 2 below)

Mathematics..... Credits: 8

- MATH 181 - Calculus I
- MATH 182 - Calculus II

Computer Science..... Credits: 3

- CS 117 - Programming for Scientists and Engineers

or

- CS 135 - Computer Science I

Physics..... Credits: 8

- PHYS 151 - General Physics I
- PHYS 152 - General Physics II (See note 3 below)

Chemistry Major Requirements..... Credits: 43

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- CHEM 241 - Organic Chemistry I
- CHEM 242 - Organic Chemistry II
- CHEM 347 - Laboratory Techniques of Organic Chemistry I
- CHEM 348 - Laboratory Techniques of Organic Chemistry II
- CHEM 355 - Quantitative Analysis
- CHEM 355L - Quantitative Analysis Laboratory
- CHEM 421 - Physical Chemistry I
- CHEM 474 - Biochemistry I
- CHEM 455 - Instrumental Analysis
- CHEM 489 - Senior Poster Seminar

and nine credits (including at least two credits of advanced laboratory) selected from:

- CHEM 312 - Introduction to Radiochemistry
- CHEM 422 - Physical Chemistry II
- CHEM 423 - Physical Chemistry Laboratory
- CHEM 428 - Quantum Chemistry
- CHEM 431 - Advanced Inorganic Chemistry
- CHEM 442 - Advanced Organic Chemistry
- CHEM 447 - Advanced Synthesis Laboratory
- CHEM 455L - Instrumental Analysis Laboratory
- CHEM 472 - Biochemistry Laboratory
- CHEM 475 - Biochemistry II
- CHEM 490 - Senior Independent Study in Chemistry

or

- CHEM 492 - Advanced Topics in Chemistry

Electives Courses other than those listed above..... Credits: 25

Total Credits: ..... 120

## Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First-Year Seminar requirement.
2. At least 40 credits must be earned at the upper-division level (300 and above).
3. The sequence PHYS 180 -180L, 181 -181L, and 182 -182L is an acceptable replacement for PHYS 151,152 ; any two course combination from PHYS 180, 181, and 182 is not an acceptable replacement.

## Chemistry Major- Bachelor of Arts (BS)

Please see the UNLV College of Sciences, Chemistry department web page at [www.unlv.edu/chemistry/](http://www.unlv.edu/chemistry/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

Upon completion of all undergraduate programs in Chemistry and Biochemistry, students will have a broad understanding of chemistry's subdisciplines by satisfactorily completing

- Introductory and foundational course work in chemistry, and in-depth course work in chemistry; all with laboratory emphasis. Additionally:
  - Students completing the B.S. program in Chemistry will complete intensive and comprehensive courses as identified by the American Chemical Society Guidelines for Bachelor Degree Programs including a research experience that provides for the development of the skills needed to be an effective professional chemist. The B.S. program in Chemistry is recognized by the ACS-CPT, and has enjoyed this status for over 40 years. Only about 30% of B.S. Chemistry programs in the United States have achieved this recognition.
  - Students completing the B.S. program in Biochemistry will complete most of the same intensive and comprehensive courses in Chemistry with laboratory emphasis as students in the B.S. ACS program above. Additionally, students in this program will complete four intensive and comprehensive courses in Biochemistry along with an advanced Biochemistry Lab. This program also provides for flexibility in the selection of in-depth Biology course electives to complement the rigorous chemistry foundation of the program.
  - Students completing the B.A. program in Chemistry will complete much of the in-depth course work in chemistry along with elective courses offered by departments from within the College of Sciences as well as other colleges within the university. There is greater flexibility in program design for customization of the program to individual student's career interests.
  - Build and develop communication skills through writing laboratory reports, term papers, and presentation of seminars and poster seminars.
  - Develop critical thinking. Critical thinking skills, development of problem solving abilities are implemented in the very first introductory courses common to all undergraduate programs offered. These skills are developed as students progress through the sequence of courses (meeting each course prerequisite in a well thought out and logical pattern) required for graduation in all of our programs.
  - Develop intellectual growth by integrating into all of our courses concepts of ethics, laboratory safety and environmental stewardship applicable to the profession as well as to local, state, regional, national and international communities and society. Emphasis will be placed on the development of UULOs regarding Global/Multicultural Knowledge and Awareness, and Citizenship and Ethics.

- Graduates shall be able to demonstrate technical competency in the performance of basic laboratory operations, including solution preparation and standardization, common synthetic procedures, standard qualitative and quantitative analysis procedures, and operation of standard laboratory equipment.
- Graduates shall have an in-depth understanding of the theoretical basis of chemistry, as well as areas of application of chemical principles.
- Graduates shall be able to function as chemical professionals in entry-level jobs or to succeed in graduate studies in chemistry or related scientific fields.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Chemistry Degree Requirements ..... Total: 120 Credits

General Education Requirements ..... Subtotal 33-36

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics

Fulfilled by Major Requirements

Distribution Requirements ..... Credits: 18

Please see Distribution Requirement for more information.

- Humanities and Fine Arts: 9 Credits

- Two courses 3 credits each from two different humanities areas - 6 credits

- One course in fine arts- 3 credits

- Social Science: 9 Credits

- One course each from three different fields.

- Life and Physical Sciences and Analytical Thinking:

- Automatically satisfied by Major requirement.

Multicultural and International

(see note 1 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Chemistry - Subtotal: 87-90 Credits

(see note 2 below)

Mathematics ..... Credits: 15

- MATH 181 - Calculus I

- MATH 182 - Calculus II

- MATH 283 - Calculus III

- MATH 431 - Mathematics for Engineers and Scientists I

Statistics ..... Credits: 3-6

- STAT 152 - Introduction to Statistics

or

- STAT 411 - Statistical Methods I

and

- STAT 412 - Statistical Methods II

or

- STAT 491 - Statistics for Scientists I

and

- STAT 492 - Statistics for Scientists II

Physics ..... Credits: 12

- PHYS 180 - Physics for Scientists and Engineers I

- PHYS 180L - Physics for Scientists and Engineers Lab I

- PHYS 181 - Physics for Scientists and Engineers II

- PHYS 181L - Physics for Scientists and Engineers Lab II

- PHYS 182 - Physics for Scientists and Engineers III

- PHYS 182L - Physics for Scientists and Engineers Lab III

Chemistry Major Requirements ..... Credits: 57

- CHEM 121A - General Chemistry I

- CHEM 121L - General Chemistry Laboratory I

- CHEM 122A - General Chemistry II

- CHEM 122L - General Chemistry Laboratory II

- CHEM 241 - Organic Chemistry I

- CHEM 242 - Organic Chemistry II

- CHEM 347 - Laboratory Techniques of Organic Chemistry I

- CHEM 348 - Laboratory Techniques of Organic Chemistry II

- CHEM 355 - Quantitative Analysis

- CHEM 355L - Quantitative Analysis Laboratory

- CHEM 421 - Physical Chemistry I

- CHEM 422 - Physical Chemistry II

- CHEM 423 - Physical Chemistry Laboratory

- CHEM 428 - Quantum Chemistry

- CHEM 431 - Advanced Inorganic Chemistry

- CHEM 447 - Advanced Synthesis Laboratory

- CHEM 455 - Instrumental Analysis

- CHEM 455L - Instrumental Analysis Laboratory

- CHEM 474 - Biochemistry I

- CHEM 491 - Senior Seminar in Chemistry

- CHEM 493 - Senior Research in Chemistry I

- CHEM 494 - Senior Research in Chemistry II

and seven credits selected from:

- CHEM 312 - Introduction to Radiochemistry

- CHEM 442 - Advanced Organic Chemistry

- CHEM 472 - Biochemistry Laboratory

- CHEM 475 - Biochemistry II

- CHEM 476 - Advanced Topics in Biochemistry

- CHEM 492 - Advanced Topics in Chemistry

Total Credits: ..... 120

### Notes

1. German or Russian is strongly recommended. Up to six credits of foreign language may be used to satisfy the General Education Core Humanities requirement.

2. At least 40 credits must be earned at the upper-division level (300 and above).

### Minor

#### Chemistry Minor

Courses Include ..... Credits: 24

CHEM 121A - General Chemistry I, CHEM 121L - General Chemistry Laboratory I

and

CHEM 122A - General Chemistry II, CHEM 122L - General Chemistry Laboratory II

plus 16 additional credits of chemistry in courses numbered 220 or higher. At least 12 credits must be upper division. Credit will not be allowed toward the total of 24 for completing both CHEM 220 and CHEM 241. See departmental policies for further details.

## Chemistry

### **CHEM 103 - Preparatory Chemistry**

For students with a deficiency in high school chemistry who wish to qualify for CHEM 121A. Corequisite(s): Enrollment in MATH 96 or placement in MATH 124 or higher. Note(s): Credit not allowed in both CHEM 103 and CHEM 110. Does not satisfy the General Education Core Science requirement. 3 credit(s)

### **CHEM 105 - Chemistry, Man, and Society**

Introduction to chemistry, intended to develop an understanding of basic principles, and an appreciation of both the benefits and risks resulting from application of these principles in science and technology. May be used in partial fulfillment of the General Education Core Science requirement. Note(s): Credit not allowed in both CHEM 105 and CHEM 110. 3 credit(s)

### **CHEM 106 - Beginning Chemistry Laboratory**

Laboratory exercises designed to illustrate material discussed in CHEM 105. May be used in partial fulfillment of the General Education Core requirement. Note(s): Must be concurrently enrolled in CHEM 105. 1 credit(s)

### **CHEM 108 - Introduction to Chemistry**

Survey of elementary principles of general chemistry, organic chemistry and biochemistry, and their applications to living systems. For non-science majors and students majoring in nursing and allied health. Prerequisites: High School Chemistry or Permission of Instructor. 4 credit(s)

### **CHEM 110 - Chemistry for the Health Sciences I**

Survey of elementary principles of general chemistry and their applications to living systems. For students in programs such as nursing and allied health. Prerequisite(s): MATH 96 or placement in MATH 124 or higher. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Credit not allowed in both CHEM 103 and 110. 4 credit(s)

### **CHEM 111 - Chemistry for the Health Sciences II**

Survey of elementary principles of organic chemistry and biochemistry. For students majoring in nursing and allied health. Prerequisite(s): CHEM 110. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Credit not allowed in both CHEM 111 and CHEM 220. 4 credit(s)

### **CHEM 121A - General Chemistry I**

Formerly Listed as CHEM 121

Fundamental principles of chemistry and their correlation with the properties of the elements. Corequisite(s): MATH 126 or placement into MATH 127 or MATH 128 or higher. CHEM 121L is required if enrolling in CHEM 121A for the first time. Prerequisite(s): A passing score on the Chemistry Placement Exam or a grade of C or better in CHEM 103. Lab/Lecture/Studio Hours Three hours lecture. Note(s): Credit not allowed in both CHEM 121 and CHEM 121A. 3 credit(s)

### **CHEM 121L - General Chemistry Laboratory I**

Laboratory experiments to accompany CHEM 121A. Corequisite(s): MATH 126 or placement into MATH 127 or MATH 128 or higher, and CHEM 121A. Prerequisite(s): A passing score on the Chemistry Placement Exam or a grade of C or better in CHEM 103. Note(s): Credit not allowed in both CHEM 121 and CHEM 121L. 1 credit(s)

### **CHEM 122A - General Chemistry II**

Formerly Listed as CHEM 122

Application of chemical principles to properties of inorganic substances. Emphasis on kinetics, equilibria, thermodynamics, and electrochemistry. Corequisite(s): CHEM 122L is required if enrolling in CHEM 122A for the first time. Prerequisite(s): CHEM 121 or CHEM 121A and CHEM 121L, MATH 127 or MATH 128 or higher. Lab/Lecture/Studio Hours Three hours lecture. Note(s): Credit not allowed in both CHEM 122 and CHEM 122A. 3 credit(s)

### **CHEM 122L - General Chemistry Laboratory II**

Laboratory experiments to accompany CHEM 122A. Corequisite(s): CHEM 122A Prerequisite(s): CHEM 121, or CHEM 121A and CHEM 121L; MATH 127 or MATH 128 or higher. Note(s) Credit not allowed in both CHEM 122 and CHEM 122L. 1 credit(s)

### **CHEM 123 - Qualitative Analysis Laboratory**

Laboratory portion of CHEM 122A. Open only to students with scores of four or five on the Chemistry Advanced Placement Test of the College Entrance Examination Board. Satisfies CHEM 121-122 for these students. Prerequisite(s): A score of four or five on the Advanced Placement Test in Chemistry. Lab/Lecture/Studio Hours One hour lecture and three hours laboratory 2 credit(s)

### **CHEM 190 - Freshman Independent Study in Chemistry**

Introduction to research in a chemistry lab. Students work under close supervision of a faculty member to develop research skills. Prerequisite(s): CHEM 121A and CHEM 121L or a score of three or better on the AP Chemistry Exam; consent of faculty member directing the research prior to registration. May be repeated to a maximum of three credits. Lab/Lecture/Studio Hours May include library research and laboratory work. 1 credit(s)

### **CHEM 220 - Introductory Organic Chemistry**

Introduction to the properties of organic functional groups and to elementary laboratory techniques. Prerequisite(s): CHEM 122A, 122L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Credit toward meeting chemistry program requirements not allowed in both CHEM 220 and CHEM 241. 4 credit(s)

### **CHEM 241 - Organic Chemistry I**

Intensive introduction to the theory of carbon chemistry with particular emphasis on understanding the relationship between the structure and behavior of organic molecules. Credit toward meeting chemistry program requirements not allowed in both CHEM 220 and CHEM 241. Prerequisite(s): CHEM 122A, 122L. Note(s): Students are limited to two (2) registrations for this course regardless of first registration status (grade, drop, withdraw or audit). Students can only enroll in this course through the Chemistry Department Office. 3 credit(s)

### **CHEM 241L - Organic Chemistry for Life Sciences Lab I**

Laboratory exercises in introductory organic chemistry. Stereochemistry, separation and purification techniques, micro-scale organic reaction procedures. Corequisite(s): CHEM 241. 1 credit(s)

### **CHEM 242 - Organic Chemistry II**

Continuation of CHEM 241 with emphasis on complex reactions and mechanisms, and introduction to advanced approaches for the synthesis of organic molecules. Credit not allowed in both CHEM 220 and CHEM 241-242. Prerequisite(s): CHEM 241. 3 credit(s)

### **CHEM 242L - Organic Chemistry for Life Sciences Laboratory II**

Laboratory exercises in intermediate organic chemistry with continued emphasis on micro-scale organic reaction procedures. Introduction to the identification of organic compounds using chemical and instrumental means (qualitative analysis). Corequisite(s): CHEM 242. 1 credit(s)

### **CHEM 302 - Chemistry Demonstrations for Science Teachers**

Provides an opportunity for science teachers to perform practical chemistry demonstrations and to review fundamental chemical principles. These demonstrations suitable for incorporation into the physical, biological, and earth science curricula. Prerequisite(s): Consent of instructor and either a teaching certificate or bachelor's degree. 2 credit(s)

### **CHEM 312 - Introduction to Radiochemistry**

Introduction to the fundamental principles of radiation science for radiochemists. Introduction to radioactivity, interaction of radiation with matter, and effects of radiation on biological systems. Discussion and overview of practical applications of radiochemistry, including nuclear medicine, radiochemical techniques, nuclear chemical engineering, and radioactive waste management. Prerequisite(s): CHEM 122A, 122L, PHYS 181, MATH 182. 3 credit(s)

### **CHEM 347 - Laboratory Techniques of Organic Chemistry I**

Laboratory exercises in introductory organic chemistry for chemistry majors. Stereochemistry, separation and purification techniques, macro-scale organic reaction procedures. Corequisite(s): CHEM 241. 1 credit(s)



**CHEM 348 - Laboratory Techniques of Organic Chemistry II**

Laboratory exercises in intermediate organic chemistry with continued emphasis on macro-scale reaction procedures. Introduction to advanced purification, separation, qualitative analysis, and spectroscopic techniques. Corequisite(s): CHEM 242. 2 credit(s)

**CHEM 355 - Quantitative Analysis**

Theory and techniques of quantitative analysis, particularly gravimetric, titrimetric, complexometric, potentiometric, and colorimetric methods. Standard chromatographic and spectroscopic techniques also covered. Emphasis upon chemical calculations and equilibrium considerations. Prerequisite(s): CHEM 220 or CHEM 241 plus either CHEM 241L or CHEM 347. Lab/Lecture/Studio Hours Three hours lecture. Note(s): Students are limited to two (2) registrations for this course regardless of first registration status (grade, drop, withdraw or audit). Students can only enroll in this course through the Chemistry Department Office. 3 credit(s)

**CHEM 355L - Quantitative Analysis Laboratory**

Laboratory stressing the application and techniques of quantitative analysis, particularly gravimetric, titrimetric, complexometric, potentiometric, and calorimetric methods. Standard chromatographic and spectroscopic techniques also covered. Emphasis upon chemical calculations and equilibrium considerations as applied to chemical analysis. Prerequisite(s): CHEM 220; or CHEM 241 plus either CHEM 241L or CHEM 347; and concurrent enrollment in CHEM 355. Lab/Lecture/Studio Hours Six hour laboratory. Note(s): Students must be concurrently enrolled in CHEM 355. 2 credit(s)

**CHEM 402 - Scientific Software for the Microcomputer**

Use of computer software for graphing, statistics, structure drawing, information retrieval, word processing, and self-paced learning. Prerequisite(s): CHEM 242. Note(s): This course is crosslisted with CHEM 602. Credit at the 600-level requires additional work. 1 credit(s)

**CHEM 421 - Physical Chemistry I**

Thermodynamics, solution behavior, and equilibrium. Prerequisite(s): CHEM 122A, 122L and PHYS 152 or concurrent registration in PHYS 182 and MATH 182. Note(s): This course is crosslisted with CHEM 621. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 422 - Physical Chemistry II**

Kinetic theory, chemical kinetics, electrochemistry, introductory quantum chemistry, and states of matter. Prerequisite(s): CHEM 421. Note(s): This course is crosslisted with CHEM 622. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 423 - Physical Chemistry Laboratory**

Introduction to basic physicochemical laboratory techniques and their use in elucidating chemical theory. Corequisite(s): CHEM 422. Prerequisite(s): CHEM 421. Note(s): CHEM 423 and CHEM 493 may not be taken concurrently. 2 credit(s)

**CHEM 428 - Quantum Chemistry**

Introduction to quantum mechanics and molecular orbital theory as related to bonding, spectra, and reactivity. Includes an introduction to computerized electronic structure calculations. Prerequisite(s): CHEM 422, MATH 182 and PHYS 181 or PHYS 182. Note(s): This course is crosslisted with CHEM 628. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 431 - Advanced Inorganic Chemistry**

Atomic and molecular structure: acid-base theory; periodic relationships and organometallic chemistry. Corequisite(s): CHEM 422. Note(s): This course is crosslisted with CHEM 631. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 442 - Advanced Organic Chemistry**

Builds on the background of the one-year organic chemistry course. Emphasizes advanced concepts of reactivity, single-step and multistep transformations, important named reactions, as well as mechanistic and functional group approaches to synthesis. Prerequisite(s): CHEM 242. 3 credit(s)

**CHEM 447 - Advanced Synthesis Laboratory**

Preparation, purification, and characterization of organic and inorganic compounds. Prerequisite(s): CHEM 242. Lab/Lecture/Studio Hours Six hours laboratory. 2 credit(s)

**CHEM 449 - Polymer Chemistry**

Synthesis, characterization, morphology, bulk and solution properties of polymers; polymerization mechanisms. Prerequisite(s): CHEM 242. 3 credit(s)

**CHEM 455 - Instrumental Analysis**

Fundamental laws and principles of instrumental determinations, including spectroscopy, spectrophotometry, electrochemical methods, and thermal analysis as main areas of study. Corequisite(s): CHEM 421. Prerequisite(s): CHEM 355 and CHEM 355L. Lab/Lecture/Studio Hours Three hours lecture. Note(s): This course is crosslisted with CHEM 655. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 455L - Instrumental Analysis Laboratory**

Laboratory stressing the application and techniques of instrumental analysis including spectroscopy, spectrophotometry, electrochemical methods, and thermal analysis and the use of these methods in chemical analysis. Prerequisite(s): CHEM 355, CHEM 355L and concurrent enrollment in CHEM 455. Lab/Lecture/Studio Hours Two credit, six hours laboratory. 2 credit(s)

**CHEM 472 - Biochemistry Laboratory**

Introduction to analytical techniques of biochemistry as tools to study cellular components. Techniques may include centrifugation, spectrophotometry, chromatography, and electrophoresis. Prerequisite(s): CHEM 474, Biochemistry major. Lab/Lecture/Studio Hours Six hours laboratory. Note(s): This course is crosslisted with CHEM 672. Credit at the 600-level requires additional work. 2 credit(s)

**CHEM 474 - Biochemistry I**

Fundamentals of biochemistry with emphasis on the structure-function relationships of proteins, enzymes, carbohydrates, lipids and nucleic acids; bioenergetics; and intermediary metabolism and the mechanisms of its regulation. Prerequisite(s): CHEM 242. Note(s): This course is crosslisted with CHEM 674. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 475 - Biochemistry II**

Continuation of CHEM 474 with emphasis on anabolic and catabolic pathways; gene replication and expression in prokaryotes and eukaryotes; recombinant DNA; and various aspects of physiological chemistry. Prerequisite(s): CHEM 474. Note(s): This course is crosslisted with CHEM 675. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 476 - Advanced Topics in Biochemistry**

In-depth study of selected topics of current and general interest in biochemistry. Topics may include enzymes, nucleic acids, metabolism, molecular genetics, neurochemistry, toxicology, and human biochemistry. Prerequisite(s): CHEM 475. May be repeated (different topic). Note(s): This course is crosslisted with CHEM 676. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 478 - Endocrinology**

(Same as BIOL 448.) Survey of the structure and function of vertebrate endocrine systems, with emphasis on the biochemical basis of hormone action and the role of cell communication in endocrine physiology. Prerequisite(s): CHEM 474 recommended. Note(s): This course is crosslisted with CHEM 678. Credit at the 600-level requires additional work. 3 credit(s)

**CHEM 489 - Senior Poster Seminar**

Topics of current research in all fields of chemistry, matters of professional concern. Includes presentation of a poster seminar on a selected topic. Prerequisite(s): CHEM 355 CHEM 355L, CHEM 421. May be repeated to a maximum of two credits. 1 credit(s)

**CHEM 490 - Senior Independent Study in Chemistry**

Modest research projects for students working toward the Bachelor of Arts degree and demonstrating aptitude for independent work. Prerequisite(s): No more than three credits of CHEM 490 may be applied toward a chemistry degree. Consent of the faculty member directing the project must be obtained prior to registration. May be repeated once. 1-3 credit(s)

**CHEM 491 - Senior Seminar in Chemistry**

Includes oral presentations of topics of current research in any field of chemistry. Only required for BS Chemistry, but recommended as an elective for any student interested in graduate school. Students in other Chemistry degree programs should take CHEM 489 instead. Prerequisite(s): CHEM 355, and CHEM 421. May be repeated to a maximum of two credits. 1 credit(s)

**CHEM 492 - Advanced Topics in Chemistry**

Selected topics from the various disciplines of chemistry not covered by any other course offerings and of current interest to students and faculty. Prerequisite(s): CHEM 242. May be repeated to a maximum of four credits. 1-2 credit(s)

**CHEM 493 - Senior Research in Chemistry I**

Individual laboratory projects drawn from any field of chemistry. Preliminary library work, equipment acquisition, and apparatus assembly and initiation of laboratory work as time allows. Corequisite(s): CHEM 421. Prerequisite(s): (Consent of the faculty member directing the project must be obtained prior to registration.) For students in the general B.S. in Chemistry program, Prerequisite(s): are CHEM 242, CHEM 422, CHEM 423, and CHEM 455. For students in the Biochemistry B.S. program, Prerequisite(s): are CHEM 355, CHEM 472, and CHEM 475; May be repeated to a maximum of two credits. 1 credit(s)

**CHEM 494 - Senior Research in Chemistry II**

Continuation of CHEM 493. Intensive experimental work. Prerequisite(s): CHEM 493. May be repeated to a maximum of four credits. 2 credit(s)

**GEOL 330 - Introduction to Geochemistry**

Introduction to the chemistry of geologic processes, including low-temperature aqueous geochemistry and petrogeochemistry. Prerequisite(s): CHEM 121A or higher; GEOL 220. 3 credit(s)

## Department of Geoscience

***Purpose and Focus***

The Department of Geoscience offers two degree programs for majors interested in the geological sciences. These programs are designed to prepare students for specific career paths in geoscience including the pursuit of graduate degrees. In addition, the department wishes to communicate the flavor and excitement of the geological sciences to all students at the university by offering a number of introductory courses that are directed toward students of all backgrounds and goals.

***Accreditation***

Northwest Commission on Colleges and Universities

***Undergraduate Majors***

Earth and Environmental Science  
Geology

***Admission to the Major***

Minimum GPA: 2.50

**Transfer Policies:** All transfer students should meet with an advisor without delay after admission in order to evaluate the applicability of previous course work to UNLV, their major, and graduation requirements.

***Department Policies***

**Graduation Requirements:** For graduation with a major or minor in geology, a minimum final grade of C (2.00) is necessary in all required geology-related courses. In addition, before enrolling in any geology course, the student must have completed each geology prerequisite for that course with a grade of C or higher.

**Probation:** A student will be placed on probation for any of the following reasons:

1. The cumulative GPA falls below 2.00.
2. The semester GPA is below 2.00 for all degree courses.
3. The student receives D, F, or I grades in more than two courses in one semester.
4. The student transfers into the college from another program at UNLV or from another institution with a GPA less than 2.50 but at least 2.00.

**Requirements for Probationary Students:** Once a student has been placed on probation as a major in the department, the following general guidelines apply:

1. The student must meet with a faculty advisor to agree upon a probationary course of study. This course of study must include at least 15 credits that apply toward a degree in the major, with a majority of the credits coming from courses in the college, unless all requirements within the college have been completed. Specific courses will be selected in consultation with the faculty advisor based on the previous progress and on established degree program requirements. Upon agreement on a course of study, the advisor will place a memorandum outlining the course of study in the file.

- Students are expected to complete the probationary course of study within two consecutive semesters and one summer. With approval of the faculty advisor, three consecutive semesters (and the intervening summer) may be allowed if course schedules make it necessary. Students who complete the probationary course of study within the allotted time with a GPA (for the course of study only) of at least 2.50 will be removed from probation.

## Advisement

Students who declare a major in geology or earth and environmental science are automatically assigned a faculty advisor. The student is required to meet with the advisor at least once a year, but the department recommends each semester.

## Major

### Earth and Environmental Science Major- Bachelor of Science (BS)

Please see the UNLV College of Science, Department of Geoscience web page at <http://geoscience.unlv.edu> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

- Demonstrate the ability to recognize, formulate, employ, and interpret the scientific methodology
- Demonstrate the knowledge of major rock types, geologic time, evolution, and earth history events
- Demonstrate the knowledge in various specializations within the field of earth science to solve appropriate research or applied problems.
- Demonstrate the ability to function independently, collaboratively, and ethically with others in the profession as colleagues and supervisors
- Demonstrate the written and verbal communications skills required to convey contemporary theories in earth science and in how the Earth operates as a system
- Demonstrate sufficient skills in computers and multi-media systems for the application and presentation in earth science

## University Graduation Requirements

- Please see Graduation Policies for complete information

### Earth and Environmental Science

Degree Requirements.....Total: 120 Credits

General Education Requirements..... Subtotal: 33-36 Credits

First-Year Seminar ..... Credits: 2-3  
(see note 1 below)

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics..... Credits: (Fulfilled by Major Requirements)

Distribution Requirement: Life and Physical Sciences and Analytical Thinking

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science: 9 Credits
  - One course each from three different fields.
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirement

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Earth and Environmental Science -

Subtotal:..... Credits: 89-92

Writing Requirement ..... Credits: 3

(Select 3 credits from the following)

- ENG 407B - Fundamentals of Technical Writing
- ENG 405B - Research and Editing
- ENG 407A - Fundamentals of Business Writing
- ENG 407C - Advanced Professional Communication

Required Department Courses ..... Credits: 14-15

Any GEOL/GEOG 100 level course for no more than 4 credits

- GEOL 102 - Earth and Life Through Time
- GEOL 220 - Mineralogy
- GEOL 335 - Earth Resources and the Environment

Related Required Courses ..... Credits: 12-14

- MATH 128 - Precalculus and Trigonometry

or

- MATH 126 - Precalculus I

and

- MATH 127 - Precalculus II

or

- MATH 181 - Calculus I or higher
- CHEM 121A - General Chemistry I or higher
- CHEM 121L - General Chemistry Laboratory I
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I or higher

Geology Electives at 200 level or above, with at least 21 credits of additional Geology and Geography 300 level or above ..... Total Credits: 28

Additional Electives in Geology or other topics, at least 13 credits above 300 level ..... Total Credits: 30

Total Credits: ..... 120

## Notes

- It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
- Students must complete 40 upper-division credits (satisfied by the degree requirements in the major).

## Geology Major - Bachelor of Science (BS)

Please see the UNLV College of Sciences, Geoscience department web page at <http://www.unlv.edu/degree/bs-geology> for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

By the end of the Geology program students will be:

1. Identify common rock-forming minerals in hand specimen and thin section, major rock types and will be able to describe the conditions under which each of them formed. This will include being able to describe the chemical characteristics of various types of rocks, geologic influences on environmental pollutants, and the use of stable and radiogenic isotopes as environmental tracers and tools in dating rocks and water.
2. Identify the common types of invertebrate and vertebrate fossils, their approximate age, and the environments in which they lived, and have a grounding in the historical development of the field of geology.
3. Recognize, in the field, various types of geologic structures, and be able to use these to reconstruct the structural history of a region.
4. Describe the major processes that determine the characteristics of the earth's surface, and be able to examine a landscape and interpret its geomorphic history.
5. Describe the plate-tectonic history of the earth (when various supercontinents assembled and fragmented), the relationship between plate tectonic processes and mountain building, and the types of data that are used to reconstruct the position of a particular plate in the geologic past.
6. Describe the regional stratigraphic framework of the Southern Nevada region; they will also be able to go into a new region that has a well-exposed stratigraphic record, and reconstruct the sedimentological history of the region.
7. Be facile in computer applications in geology including spatial and imagery analysis applications, quantitative skills, and express themselves well in oral and written reports.
8. Apply the techniques of at least two specializations within the field of geology (e.g., geophysics, hydrogeology, GIS, geochronology, petroleum geology) to the solution of appropriate research or applied problems.
9. Able to demonstrate the ability to function independently, collaboratively, and ethically with others in the profession as colleagues and supervisors.
10. Demonstrate the ability to enter a new field area, construct a geologic map on a topographic base, interpret the geologic history of the area, and write a professional quality report on the geology of the area. This learning objective comprises the Capstone experience for this degree program and is fulfilled through the summer field geology course. It also includes the ability to recognize, formulate, employ, and interpret the scientific methodology, and employ critical thinking skills. Many other learning outcomes for this degree program are also reinforced through this capstone experience (For instance, outcomes 1-5, and 9).

## University Graduation Requirements

• Please see Graduation Policies for complete information  
Geology Degree Requirements..... Total: 120 Credits  
To develop a level of geologic competency in our graduates so they are equipped to compete successfully for entry-level jobs in the geological job market and/or for admission to graduate programs offered by accredited universities and colleges. To accomplish the above:

1. The B.S. in Geology degree is intended to recognize, formulate, employ, and interpret the scientific methodology that is appropriate to geological research.
2. All students will graduate with competency in correctly identifying the properties, characteristics, and behavior of earth materials.
3. Graduating students will be proficient in the production and interpretation of geologic maps.
4. All graduates will have a working knowledge of those scientific disciplines ancillary to the science of geology: chemistry, physics, and mathematics.
5. All students will have the ability to function independently, collaboratively, and ethically with others in the profession.
6. Each graduate will demonstrate the written and verbal communications skills required to convey the results of scientific research.

General Education Requirements..... Subtotal 33-36 Credits  
First-Year Seminar ..... Credits: 2-3

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics

- Fulfilled by the major requirement - MATH 181 - Calculus I or higher

Distribution Requirement ..... Credits: 18

Please see Distribution Requirement for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science: 9 Credits
  - One course each from three different fields.
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

(see note 2 below)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BS in Geology - Subtotal: 61 Credits

Writing Requirement ..... Credits: 3

(Select 3 credits from the following)

- ENG 405B - Research and Editing
- ENG 407A - Fundamentals of Business Writing
- ENG 407B - Fundamentals of Technical Writing
- ENG 407C - Advanced Professional Communication



Required Department Courses ..... Credits: 33-34

Any GEOL/GEOG 100 level course for no more than 4 credits

- GEOL 102 - Earth and Life Through Time
- GEOL 220 - Mineralogy
- GEOL 333 - Principles of Geomorphology
- GEOL 341 - Structural Geology
- GEOL 348 - Field Geology I
- GEOL 372 - Advanced Field Geology
- GEOL 427 - Igneous and Metamorphic Petrology/Petrography
- GEOL 462 - Principles of Stratigraphy and Sedimentation

Related Required Courses ..... Credits: 23-24

Math:

- MATH 181 - Calculus I
- MATH 182 - Calculus II

or

- STAT 152 - Introduction to Statistics

or

- STAT 491 - Statistics for Scientists I

Science:

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I

and

- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- PHYS 151 - General Physics I

and

- PHYS 152 - General Physics II

or

- PHYS 180 - Physics for Scientists and Engineers I

and

- PHYS 180L - Physics for Scientists and Engineers Lab I

and

- PHYS 181 - Physics for Scientists and Engineers II

and

- PHYS 181L - Physics for Scientists and Engineers Lab II

or

- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III

Electives..... Credits: 28

Additional Electives in Geology and other topics (at least 9 must be 300 level or above in GEOL.)

Total Credits: ..... 120

## Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. Students must complete 40 upper-division credits (satisfied by the degree requirements in the major).

## Minor

### Earth and Environmental Science Minor

The student and geoscience advisor must agree upon the courses chosen to satisfy the earth and environmental science minor. This list must be signed by the student and advisor and placed on permanent record in the student's file.

Courses Include ..... Credits: 23

The Earth and Environmental Science Minor is tailored for students outside the College of Sciences. It provides a good background in the topics likely to be covered in an earth science teaching position in Clark County and other areas as well as a solid background to

appreciate the natural landscapes and resources in Southern Nevada and the world. Consists of the following course work:

GEOL 101 - Exploring Planet Earth

GEOL 102 - Earth and Life Through Time

and one of the following:

GEOG 103 - Physical Geography of Earth's Environment

GEOL 105 - Introduction to Geology of National Parks

GEOL 100 - Natural Disasters

Choose at least 12 credits from GEOL and GEOG courses numbered 300 or above. No more than 12 credits taken for the minor may be used to satisfy requirements in a student's major.

### Geology Minor

Courses Include ..... Credits: 23

The Geology minor is tailored to the needs of students within the Colleges of Science or Engineering, or is for other majors with a scientific emphasis. Consists of required coursework including:

GEOL 101 - Exploring Planet Earth

GEOL 220 - Mineralogy

and one of the following:

GEOL 221 - Introduction to Optical Mineralogy and Petrography

or

GEOL 102 - Earth and Life Through Time

Choose at least 12 credits from GEOL and GEOG courses numbered 300 or above. No more than 12 credits taken for the minor may be used to satisfy requirements in a major.

No course in which a grade of C or lower is earned may be applied to any minor in the College of Sciences.

### Physical Geography Minor

Physical Geography Minor ..... Credits: 24

The Physical Geography minor is designed for students in the Colleges of Science, Education, Liberal Arts, Engineering, and others, who desire a scientific understanding of the spatial aspects of the Earth System and analysis of spatial data. The minor emphasizes the four spheres of the Earth System: Atmosphere, Lithosphere, Hydrosphere, and Biosphere.

The minor consists of required coursework including:

- GEOG 103 - Physical Geography of Earth's Environment
- GEOG 104 - Physical Geography Laboratory
- GEOG 421 - Climatology
- GEOL 430 - Geographic Information Systems (GIS): Theory and Applications

Choose an additional 13 or more elective credits from:

- GEOL 100 - Natural Disasters
- GEOL 101 - Exploring Planet Earth
- GEOL 110 - Global Warming
- GEOL 303 - Global Environmental Change
- GEOL 333 - Principles of Geomorphology
- GEOL 335 - Earth Resources and the Environment
- GEOL 446 - Geologic Application in Remote Sensing

No more than 12 credits taken for the minor may be used to satisfy requirements in a major. At least twelve credits in GEOG and GEOL courses must be numbered 300 and above.

## Geology

### **GEOG 103 - Physical Geography of Earth's Environment**

Introduction to the processes that influence weather, rivers, oceans, climate, deserts, glaciers and their associated ecosystems. Emphasizes relationships between humans and our environment. Note(s): Satisfies the General Education Core requirement for a science course. Lecture may be combined with optional lab GEOG 104, which satisfies General Education Core requirement for a laboratory science course. 3 credit(s)

### **GEOG 104 - Physical Geography Laboratory**

Provides an opportunity to apply concepts in physical geography, including map interpretation, computer GIS, meteorological processes, development of landforms and an understanding of the dynamics of the earth. Corequisite(s): GEOG 103. 1 credit(s)

### **GEOG 116 - Introduction to Oceanography**

Fundamentals of oceanography will be covered including a brief history followed by the spatial aspects of geological, physical, chemical and biological oceanography. An emphasis will be placed on the role of oceans on climate change in the past, present and future, including global warming. Lab/Lecture/Studio Hours Three hour lecture. 3 credit(s)

### **GEOG 140 - Conversations With Earth**

Discussion of current topics on Earth's origin, evolution, and habitability. Topics include: radioactive waste storage, catastrophic floods, evolution and extinction on life, climate change, global warming, volcanism, mountain building, ice ages, Nevada geology, ore deposits, and groundwater, among others. Note(s): (Same as GEOL 140.) 3 credit(s)

### **GEOG 421 - Climatology**

Formerly Listed as GEOG 390.

Physical characteristics of the atmosphere. World climatic classification. Local atmospheric field study. Prerequisite(s): GEOG 103. Note(s): This course is crosslisted with GEOG 621. Credit at the 600-level requires additional work. 3 credit(s)

### **GEOL 100 - Natural Disasters**

Formerly Listed as GEOL 120.

Causes of natural disasters and their impact on people and property. Focuses on geological hazards such as earthquakes, volcanic eruptions, landslides, and floods. 3 credit(s)

### **GEOL 101 - Exploring Planet Earth**

Basics of geology including the birth and evolution of planet Earth, geologic time, plate tectonics, earthquakes, volcanic eruptions, natural resources, and surface processes. Understanding how geology is important to your life. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): Satisfies the General Education Core requirement for a science course AND a laboratory science course. 4 credit(s)

### **GEOL 102 - Earth and Life Through Time**

Systematic review of the history of the earth and the methods by which the details of earth history are unraveled. Prerequisite(s): A minimum of a C in one of GEOL 101, GEOL 100 or GEOG 103. Note(s): Field trips required. 4 credit(s)

### **GEOL 105 - Introduction to Geology of National Parks**

Geology of selected national parks in North America with emphasis on surface processes including the causes and effects of Pleistocene glaciation and major tectonic events that have shaped the topography of the United States and Canada. 3 credit(s)

### **GEOL 110 - Global Warming**

Learn the science of global warming, including natural climate variability versus human-caused climate change, and impacts on glaciers, water supplies, oceans, and species. Understand what models tell us about the future and the impact of our carbon footprints on sustainability. Note(s): Satisfies the General Education Core requirement for a science course. 3 credit(s)

### **GEOL 126 - Science in American Culture**

Analysis of the relationship between science and American culture from colonial times to the present. Key themes include 1) evolving relationships between science, religion, and art, 2) influence of the maturation of the historical sciences on American culture in the nineteenth century, and 3) role of science in American public policy today. Lab/Lecture/Studio Hours Three hours lecture. 3 credit(s)

### **GEOL 130 - Water and the West**

Examination of the physical processes governing the distribution and movement of water within the western United States. Consideration of the impact of water on human settlement and activities and also the impact of human activities on the natural hydrologic system. Topics include case studies from throughout the western United States. 3 credit(s)

### **GEOL 135 - Earth Resources and Society**

Geological availability, exploitation, and use of nonrenewable resources including metallic minerals, nonmetallic minerals, and energy resources. Duplicate credit not allowed in GEOL 135 and GEOL 335. Lab/Lecture/Studio Hours Three hours lecture. 3 credit(s)

### **GEOL 140 - Conversations with Earth**

(Same as GEOG 140.) Discussion of current topics of origin, evolution, and habitability. Topics include: radioactive waste storage, catastrophic floods, evolution and extinction of life, climate change, global warming, volcanism, mountain building, ice ages, Nevada geology, ore deposits, and groundwater, among others. 3 credit(s)

### **GEOL 141 - The Moon and Mars: Introduction to Planetary Geology**

Geologic principles of terrestrial planets, icy satellites, comets and asteroids. Introduction for non-science majors to remote sensing, robotic spacecraft exploration, and manned missions to the Moon and Mars. 3 credit(s)

### **GEOL 220 - Mineralogy**

Study of classification, chemistry, physical properties, and crystallography of minerals forming rocks, ore deposits and soils. Identification of hand samples. Study of associations of minerals in geologic environments. Corequisite(s): MATH 127 or MATH 128 and CHEM 121A and CHEM 121L. Prerequisite(s): A minimum of a C in one of GEOL 100 or GEOL 101 or GEOG 103. 4 credit(s)

### **GEOL 221 - Introduction to Optical Mineralogy and Petrography**

Optical properties of minerals in thin section. Laboratory identification of minerals based on optical properties. Study of associations of minerals in thin sections of rocks. Introduction to petrography. Prerequisite(s): GEOL 220. Lab/Lecture/Studio Hours Two hours lecture, three hours laboratory. 3 credit(s)

### **GEOL 301 - Fossil Record**

History and evolution of life as recorded in the fossil record. Prerequisite(s): GEOL 102 or BIOL 189 or BIOL 197. 3 credit(s)

### **GEOL 302 - Paleontology Laboratory**

Identification of the major fossil forming groups and analysis of paleontological data, with emphasis on invertebrates. Prerequisite(s): or Corequisite: GEOL 301. Note(s): Field trips required. 1 credit(s)

### **GEOL 303 - Global Environmental Change**

Interdisciplinary introduction to the dynamics of the interactions among the lithosphere, biosphere, and atmosphere and their effects on the environment throughout geologic time. Emphasizes dimensions and consequences of both natural and human induced climate change. Prerequisite(s): Junior standing. 3 credit(s)

### **GEOL 333 - Principles of Geomorphology**

Description and classification of landforms; evaluation of erosional and depositional processes with respect to earth materials, structure, and geologic history. Field trips required. Emphasis on fluvial, marine, eolian, and glacial origins of landforms. Prerequisite(s): A minimum of a C in one of GEOL 100 or GEOL 101 or GEOG 103. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

**GEOL 334 - Environmental Geology**

Control and use of the geological environment in modern society. Includes surface and sub-surface processes, mineral resources, and rock properties. Prerequisite(s): GEOL 333. 3 credit(s)

**GEOL 335 - Earth Resources and the Environment**

Geological availability, exploitation, and use of nonrenewable natural resources including metallic minerals, nonmetallic, energy resources. Component of the Environmental Studies Program. Duplicate credit not allowed in GEOL 135 and GEOL 335. Lab/Lecture/Studio Hours Three hours lecture. 3 credit(s)

**GEOL 341 - Structural Geology**

Study of structural features of the earth's crust and their development. Laboratory work involves study and preparation of geologic maps and cross sections as well as structural analysis techniques. Corequisite(s): PHYS 151 or PHYS 180 and PHYS 180L. Prerequisite(s): MATH 128 or MATH 126 and MATH 127 or higher; A minimum of a C in GEOL 220. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

**GEOL 348 - Field Geology I**

Basic tools and techniques of geologic mapping, map preparation, and report writing. Corequisite(s): GEOL 341. Prerequisite(s): GEOL 221. Note(s): Nine hours field. 3 credit(s)

**GEOL 352 - Field Trip**

Field trip to selected areas of geologic significance. Prerequisite(s): GEOL 101 or equivalent and consent of instructor. May be repeated once for credit. 1-3 credit(s)

**GEOL 370 - Intermediate Field Geology**

Intermediate-level techniques of geologic mapping, map preparation, and report writing. Preparation of reports includes professional maps, structure sections, and geologically reasonable interpretations. Requires three-week commitment during winter break. Prerequisite(s): GEOL 348. 3 credit(s)

**GEOL 372 - Advanced Field Geology**

Advanced field techniques including analysis of geologically complex areas; independent and collaborative field projects, and preparation of professional maps and reports. Oral presentation of projects. Requires three-week commitment after spring semester. Prerequisite(s): A minimum of a C in GEOL 341. 3 credit(s)

**GEOL 410 - Soil Classification and Resource Management**

Morphology and classification of soils based on their physical, chemical and mineralogical composition. Introduction to soil genesis, soil mapping, and the relationship of soils to the limitations and potentials of land use. Prerequisite(s): Junior standing and either GEOG 101 or GEOL 101, or consent of instructor. Lab/Lecture/Studio Hours Three lectures and one laboratory per week. Note(s): This course is crosslisted with GEOL 610. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 419 - Medical Geology**

Medical Geology is the science surrounding the relationships among geological factors and health in humans, animals, and plants. This class focuses on the relationships between geology and human health. Prerequisite(s): CHEM 121A, CHEM 121L and GEOL 220 or GEOL 301 3 credit(s)

**GEOL 420 - Introduction to X-ray Diffraction and X-ray Spectrometry Methods**

Introduction to the principles and methods of x-ray analysis as applied to the study of minerals. Powder camera, diffractometry and spectrometry methods covered. Corequisite(s): GEOL 330. Prerequisite(s): GEOL 220. Lab/Lecture/Studio Hours Two hours lecture and six hours laboratory. Note(s): This course is crosslisted with GEOL 620. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 425 - Principles of Geochemistry**

Formerly Listed as GEOL 330.

Fundamental geochemical processes operating within the lithosphere, hydrosphere and atmosphere. Topics include chemical differentiation of the earth, crystal chemistry, mineral stability and phase diagrams, aqueous

geochemistry, isotope geochemistry, organic chemistry. Corequisite(s): CHEM 122A, 122L. Prerequisite(s): MATH 128; GEOL 220. Note(s): This course is crosslisted with GEOL 625. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 427 - Igneous and Metamorphic Petrology/Petrography**

Description, classification, and interpretation of igneous and metamorphic rocks in hand specimen and thin section. Prerequisite(s): A minimum of a C in GEOL 220. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory per week. 4 credit(s)

**GEOL 429 - Geochemical Thermodynamics and Kinetics**

Survey of the basic principles of thermodynamics and kinetics and their application to geological processes; applications to include igneous, metamorphic, hydrothermal, diagenetic, weathering, and aqueous systems. Prerequisite(s): GEOL 425 and MATH 181. Note(s): This course is crosslisted with GEOL 629. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 430 - Geographic Information Systems (GIS): Theory and Applications**

Survey of computer-based techniques in the storage, retrieval, analysis, and representation of spatially referenced data. Emphasis on the application of GIS technology to geologic problems such as natural hazard mapping, surface runoff and erosion, and environmental impact assessment. Prerequisite(s): MATH 127 or MATH 128. Lab/Lecture/Studio Hours Three hours lecture and three hours lab. Note(s): This course is crosslisted with GEOL 630. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 433 - Glacial and Periglacial Geology**

Origin and regimen of glaciers. Geomorphology and stratigraphic analysis of glacial and associated non-glacial deposits and environments. Prerequisite(s): GEOL 333. Note(s): This course is crosslisted with GEOL 633. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 434 - Quaternary Geology**

Survey of global paleoenvironments, including geologic, climatic, and biotic changes during the Quaternary. Examination of the geological record of marine and terrestrial glaciated and nonglaciated environments. Prerequisite(s): GEOL 433. Note(s): This course is crosslisted with GEOL 634. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 436 - Quaternary Paleocology**

Examination of the fossil record of the Quaternary including vertebrate, invertebrate, and floral assemblages. Emphasis on paleoenvironmental and paleoclimatological reconstructions. Prerequisite(s): GEOL 333. Note(s): Field trips required. This course is crosslisted with GEOL 636. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 437 - Paleoclimatology**

Paleoclimatic history of the Earth, with emphasis on the Neogene and Quaternary Periods. Survey of marine and terrestrial geological records of paleoclimate, including physical sedimentology, geochemistry, and pollen profiles of ice and sediment cores and speleothems. Prerequisite(s): GEOL 333. Note(s): This course is crosslisted with GEOL 637. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 440 - Volcanology**

Description and classification of volcanoes, volcanic eruptions, and volcanic deposits. Emphasis on the dynamics of volcanic eruptions, pyroclastic rocks, lava flows, and volcanic hazard assessment. Prerequisite(s): GEOL 427. Note(s): This course is crosslisted with GEOL 640. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 443 - Plate Tectonics**

Study of the origin, age, thermal and magnetic history; the dynamics and internal structure of lithospheric plates; the mechanisms and geometric constraints of plate motion; and a review of the motions of plates in the past. Prerequisite(s): GEOL 341. Note(s): This course is crosslisted with GEOL 643. Credit at the 600-level requires additional work 3 credit(s)

**GEOL 444 - Tectonics of Orogenic Belts**

Study of crustal deformation and the creation of mountain belts around the world. Emphasis on the comparative structural development of different regions around the globe within the context of plate tectonics. Prerequisite(s): GEOL 220 and GEOL 341. Note(s): This course is crosslisted with GEOL 644. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 445/445L - Geophysical Methods**

Introduction to geophysical methods, including measurement techniques, rock properties, and interpretation methods using seismology, gravity, magnetics, ground penetrating radar, resistivity and well logs. Prerequisite(s): GEOL 101, MATH 182, PHYS 152 or PHYS 182. Lab/Lecture/Studio Hours Three hours lecture and three hours lab. Note(s): This course is crosslisted with GEOL 645. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 446 - Geologic Application in Remote Sensing**

Introduction in the acquisition, processing, and interpretation of remote sensing data. Topics covered include basic mapping concepts, the structure of remote sensing data and analysis, thermal and radar techniques, and classification schemes. Corequisite(s): PHYS 152 or PHYS 182 and PHYS 182L. Prerequisite(s): GEOL 101. Lab/Lecture/Studio Hours Laboratory computer based. Two hours lecture and three hours laboratory. Note(s): This course is crosslisted with GEOL 646. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 449 - Geochronology**

Theoretical foundations and modern analytical techniques used in isotopic dating of rocks. Discussion of applications to specific geologic problems and the thermal significance of isotopic dates. Survey of new dating techniques. Prerequisite(s): GEOL 427 and CHEM 122A, 122L. Note(s): This course is crosslisted with GEOL 649. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 462 - Principles of Stratigraphy and Sedimentation**

Analysis and application of stratigraphic concepts, and the genesis and classification of sediments. Study of regional stratigraphic patterns and their related sedimentary environments. Prerequisite(s): CHEM 121A, MATH 181 and a minimum grade of C in GEOL 102. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

**GEOL 470 - Planetary Geology**

This course introduces geologic processes throughout our solar system. We will compare geologic processes on extraterrestrial bodies to those that occur on Earth. Prerequisite(s) GEOL 220, GEOL 427 or consent of instructor. 3 credit(s)

**GEOL 471 - Petroleum Geology**

Origin, migration, accumulation, and geologic distribution of petroleum. Surface, sub-surface and geophysical methods of exploration. Prerequisite(s): GEOL 341 and GEOL 462. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Note(s): This course is crosslisted with GEOL 671. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 474 - Hydrogeology**

Factors controlling the occurrence and distribution of water resource, its quality and quantity, methods of exploration and development. Prerequisite(s): GEOL 341, CHEM 122A, 122L and MATH 181. Note(s): This course is crosslisted with GEOL 674. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 477 - Geology of Metallic Ore Deposits**

Geology of metallic ore deposits, origin, occurrence, and alteration. Application of ore deposit characteristics to exploration. Prerequisite(s): GEOL 220 and CHEM 121A and CHEM 121L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. Field trips required. Note(s) This course is crosslisted with GEOL 677. Credit at the 600-level requires additional work. 4 credit(s)

**GEOL 478 - Hydrogeochemistry**

Principles of aquatic geochemistry such as chemical thermodynamics, tableaux, and oxidation reduction and environmental organic geochemistry such as physicochemical properties of organic compounds and air/water/soil exchange of organic compounds for environmental studies. Concepts for practical environmental problems, geochemical modeling, and contaminant transport. Prerequisite(s): CHEM 122A, 122L and MATH 181. Note(s): This course is crosslisted with GEOL 678. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 485 - Engineering Geology**

Application of physical geology to the construction industry. Consideration given to landslide problems, sites for dams, bridges, tunnels and canals; and possible control of erosion and sedimentation by rivers and oceans. Prerequisite(s): GEOL 333. Lab/Lecture/Studio Hours Two hours lecture and three hours laboratory. Note(s): This course is crosslisted with GEOL 685. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 488 - Microtechniques in Geoscience**

Microanalytical techniques including transmitted and reflected light petrology and petrography, micro-imaging scanning electron microscope (SEM) and electron microprobe (EMP), chemical microanalyses (EMP), fluid inclusion microthermometry, and melt inclusion petrography. Project tailored to the interest required. Prerequisite(s): GEOL 220 / GEOL 221. Note(s): This course is crosslisted with GEOL 688. Credit at the 600-level requires additional work. 3 credit(s)

**GEOL 491 - Seminar**

Weekly lecture in selected fields of geoscience; topics vary by semester. May be repeated to a maximum of three credits. Prerequisite(s): Consent of instructor. 1 credit(s)

**GEOL 495 - Independent Study and Research**

Independent study and research projects in some field of geology. Open only to upper-division students. Proposed project for study and/or research must be submitted in writing to the department chair for approval and credit evaluation prior to registration. Prerequisite(s): Upper-division student and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**GEOL 496 - Advanced Topics in Geoscience**

Variety of advanced studies of current and/or topical interest in specialized areas of geoscience. Prerequisite(s): Varies depending upon the specific topic. May be repeated to a maximum of six credits. 1-3 credit(s)

**GEOL 497 - Senior Thesis**

Independent original research in geoscience. Requires a written thesis and an oral exam. Proposed project of study must be submitted in writing to the department chair and undergraduate coordinator at least two weeks prior to registration. 3-6 credit(s)



# Mathematical Sciences

## ***Purpose and Focus***

The Department of Mathematical Sciences provides opportunities for learning and research in several fields of concentration. Mathematics provides the language and concepts in terms of which knowledge in almost all disciplines is understood and communicated, and it often provides the means and techniques for solving problems. The courses required in the programs serve several purposes which include helping students along paths leading to branches of science and technology as well as to mathematical specializations. These courses are designed to provide routes by which students may arrive at the research level in any of the special areas listed and to allow students to prepare themselves for work in industry or government or in educational institutions.

## ***Accreditation***

Northwest Commission on Colleges and Universities

## ***Degree Objectives/Learning Outcomes***

Upon completion of the bachelor's degree in mathematical sciences, students would have been trained to think analytically, would have rigorous problem-solving skills, and would have a solid background to enable them to pursue graduate studies in mathematical sciences.

## ***Undergraduate Majors***

Mathematical Sciences — Bachelor of Arts

Mathematical Sciences — Bachelor of Science

## ***Areas of Concentration***

Actuarial Sciences

## ***Admission to the Major***

Minimum GPA: 2.50 and placement into MATH 181 - Calculus I or higher.

**Admissions Policies:** Students must meet minimum GPA requirements.

Students with a GPA less than 2.50, but at least 2.0, may be admitted on probationary status. Students on probation must meet with an advisor to devise a course of study that, when successfully completed, will remove the student from probationary status; the course of study must be approved by the department chair. The course of study shall consist of at least 15 units that apply toward a degree in the major; ordinarily, the course of study will be required to be completed in one calendar year (i.e., two semesters and the summer term). The advisor may request that completion time be extended by one semester for good cause (e.g., more than 15 units in the course of study, course offering schedules, etc.). Failure to satisfactorily complete the probationary course of study is grounds for suspension from the department.

## ***Advisement***

Each student must meet with an academic advisor in the college's Advising Center before first declaring their major or minor in the mathematical sciences at UNLV, and is encouraged to seek advising at least once a year thereafter. Students should meet with a faculty advisor as needed.

## ***Degree Requirements***

A grade of C or higher is required in each MATH or STAT course used to satisfy degree requirements for a major in mathematical sciences. At most, six credits of independent study may be used in any undergraduate degree program in mathematical sciences. A student may not major or minor in dual areas of the mathematical sciences

## ***Mathematical Sciences Major- Bachelor of Arts (BA)***

Please see the UNLV College of Mathematical Science Degree web page at [www.unlv.edu/math](http://www.unlv.edu/math) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Sciences Advising Website at [www.unlv.edu/sciences/advising/](http://www.unlv.edu/sciences/advising/).

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## ***Learning Outcomes***

1. Demonstrate a solid understanding of differential (1A), integral (1B) and multivariable (1C) calculus, and be able to apply these concepts to a variety of problems.
2. Demonstrate a solid understanding of vector calculus (2A), linear algebra (2B), ordinary differential equations (2C), higher level algebra (2D) and analysis (2E), and be able to apply these concepts to a variety of problems.
3. Be able to think analytically and critically and to formulate problems, solve them, and interpret their solutions.
4. Achieve an understanding of the nature of proof, in particular should demonstrate a good understanding of rigorous mathematical proof (reading and writing), and apply reasoning based on definitions, axioms, theorems and induction.
5. Communicate effectively in writing.
6. Have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.

## ***University Graduation Requirements***

- Please see Graduation Policies for complete information.
- Mathematical Science Degree Requirements..... Total: 120 Credits (see note 1 below)
- General Education Requirements..... Subtotal: 33-36 Credits
- First-Year Seminar ..... Credits: 2-3 (see note 2 below)
- English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second-Year Seminar ..... Credits: 3
- Constitutions ..... Credits: 4-6
- Mathematics
- Distribution Requirements ..... Credits: 18
- Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
    - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
  - Social Science: 9 credits
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking :
    - Automatically satisfied by Major requirements
- Multicultural and International
- Multicultural, one 3 credit course required
- International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>.

#### Major Requirements - BA in Mathematical

Science.....Subtotal: 51 Credits

Computer Programming Requirements..... Credits: 3

Select one of:

- CS 117 - Programming for Scientists and Engineers

or

- CS 135 - Computer Science I

Science Requirements..... Credits: 9

Select nine (9) credits, including a LAB course, from college-level BIOL, CHEM, GEOG, GEOL, PHYS, CEE, CS, CpE, EE, ME courses.

- MATH 181 - Calculus I - Fulfills Math General Education Requirement
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I
- MATH 283 - Calculus III
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra
- MATH 427 - Differential Equations I
- MATH 453 - Abstract Algebra I
- MATH 457 - Introduction to Real Analysis I

and 12 additional credits from 400-level MATH or STAT courses, program of study must include two (2) one-year 400-level MATH or STAT sequences.

Electives..... Credits: 33-36

Total Credits: ..... 120

#### Notes

1. Every student will be encouraged to take the GRE Advanced Test in Mathematics.
2. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

#### Mathematical Sciences Major - Bachelor of Science (BS)

Please see the UNLV College of Sciences, Mathematical Science department web page at [www.unlv.edu/math](http://www.unlv.edu/math) for information about department programs, faculty and facilities.

Please see advising information at the UNLV College of Science Advising at [www.unlv.edu/sciences/advising](http://www.unlv.edu/sciences/advising).

#### Accreditation

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

#### Learning Outcomes

1. Demonstrate a solid understanding of differential (1A), integral (1B) and multivariable (1C) calculus, and be able to apply these concepts to a variety of problems.
2. Demonstrate a solid understanding of vector calculus (2A), linear algebra (2B), ordinary differential equations (2C), higher level algebra (2D) and analysis (2E), and be able to apply these concepts to a variety of problems.
3. Be able to think analytically and critically and to formulate problems, solve them, and interpret their solutions.

4. Achieve an understanding of the nature of proof, in particular should demonstrate a good understanding of rigorous mathematical proof (reading and writing), and apply reasoning based on definitions, axioms, theorems and induction.

5. Communicate effectively in writing.

6. Have experience applying knowledge from one branch of mathematics to another and from mathematics to other disciplines.

#### University Graduation Requirements

Please see Graduation Policies for complete information

Mathematical Science Degree Requirements..... Total: 120 Credits (see notes 1-2 below)

General Education Requirements - Subtotal: 33-36 Credits

First-Year Seminar ..... Credits: 2-3 (see note 3 below)

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts- 3 credits
- Social Science: 9 Credits
  - One course each from three different fields.
- Life and Physical Sciences and Analytical Thinking:
  - Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://faculty.senate.unlv.edu/students>

#### Major Requirements - BS in Mathematical

Science.....Subtotal: 80 Credits

Computer Programming Requirements..... Credits: 3

Select one of:

- CS 117 - Programming for Scientists and Engineers

or

- CS 135 - Computer Science I

Science Requirements..... Credits: 9

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I

and select five credits from the following:

BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201, 203; GEOL courses numbered 220 and above; GEOG courses numbered 300 and above; PHYS courses numbered 181 and above; CEE courses numbered 241 and above; CS courses numbered 218 and above; CpE courses numbered 300 and above; EE courses numbered 220 and above; ME courses numbered 242 and above.

Required Department Courses ..... Credits: 39

- MATH 181 - Calculus I - fulfills Mathematics General Education Requirement
- MATH 182 - Calculus II

- MATH 251 - Discrete Mathematics I
- MATH 283 - Calculus III
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra
- MATH 427 - Differential Equations I
- MATH 453 - Abstract Algebra I
- MATH 457 - Introduction to Real Analysis I

and 12 additional credits from 400-level MATH or STAT courses, program of study must include two one-year 400-level MATH or STAT sequences.

Science and Engineering Electives..... Credits: 29  
Electives..... Credits: 4-7  
Total Credits: ..... 120

### Notes

1. Of the 120 credits required for graduation, 80 or more must be in courses offered by the College of Sciences and the College of Engineering.
2. Every student will be encouraged to take the GRE Advanced Test in Mathematics
3. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.

### Major Requirements - BS in Mathematics Actuarial Science Concentration .....

(see note 2 below)

Computer Programming Requirements..... Credits: 3  
Select one of:

- CS 117 - Programming for Scientists and Engineers
- or
- CS 135 - Computer Science I

Science Requirements..... Credits: 9  
Select nine (9) credits, including a LAB course, from BIOL courses numbered 189 and above; CHEM courses numbered 121 and above except CHEM 201, 203; GEOL courses numbered 220 and above; GEOG courses numbered 300 and above; PHYS courses numbered 180 and above; CEE courses numbered 300 and above; CS courses numbered 218 and above; all CpE courses; EE courses numbered 220 and above; all ME courses.

Required Department Courses ..... Credits: 42

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- MATH 320 - Mathematics of Interest
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra
- MATH 463 - Advanced Matrix Theory and Applications

or

- MATH 466 - Numerical Methods I
- MATH 427 - Differential Equations I
- MATH 471 - Actuarial Mathematics I
- MATH 472 - Actuarial Mathematics II
- STAT 411 - Statistical Methods I
- STAT 412 - Statistical Methods II
- STAT 467 - Introduction to Mathematical Statistics
- STAT 488 - Senior Research Project in Statistics

Economics and Finance Requirements

- ECON 102 - Principles of Microeconomics

- ECON 103 - Principles of Macroeconomics
- FIN 321 - Corporate Risk Management

Sciences and Engineering Electives ..... Credits: 6  
Electives..... Credits: 15-18  
Total Credits: ..... 120

### Minor

#### Actuarial Science Minor

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

Required Courses

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 320 - Mathematics of Interest
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra
- MATH 471 - Actuarial Mathematics I
- MATH 473 - Risk Theory

#### Mathematics Minor

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

Required Courses

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 251 - Discrete Mathematics I

or

- MATH 283 - Calculus III
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra

9 additional upper division credits in MATH or STAT

#### Statistics Minor

A minor in the Department of Mathematical Sciences includes at least 20 credits as follows:

Required Courses

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Science.

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 330 - Linear Algebra

or

- MATH 365 - Computational Linear Algebra
- STAT 391 - Applied Statistics for Biological Sciences

or

- STAT 411 - Statistical Methods I

or

- STAT 463 - Applied Statistics for Engineers

or

- STAT 491 - Statistics for Scientists I
- STAT 413 - Statistical Experimental Design

and

- STAT 493 - Applied Regression Analysis

## **Mathematics**

### **MATH 95 - Elementary Algebra**

Elementary algebraic topics for students whose mathematical background or placement score indicates that preparation for Intermediate Algebra is desirable. Credit for this course does not count toward the total needed for graduation. Prerequisite(s): Arithmetic skills required. 3 credit(s)

### **MATH 96 - Intermediate Algebra**

Polynomial and rational expressions, linear equations, linear and absolute value inequalities, applications, exponents and radicals, quadratic equations, relations, and their graphs, systems of equations. Credit for this course does not count toward the total needed for graduation. Prerequisite(s): A minimum score of 20 on the ACT, or a minimum score of 500 on the SAT, or three years of HS mathematics and a satisfactory score on an approved Mathematics Placement Assessment, or C or better in MATH 095. 3 credit(s)

### **MATH 115 - Humane Mathematics**

Study of some elementary and elegant examples displaying mathematics as a medium for artistic expression and aesthetic appreciation. Intended for students with limited mathematical background, but not preparation for college algebra or the precalculus mathematics sequence. Does not satisfy the general education core mathematics requirement. Prerequisite(s): One year of high school algebra and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test). 3 credit(s)

### **MATH 120 - Fundamentals of College Mathematics**

Real numbers; consumer mathematics; variation; functions, relations, and graphs; geometry of measurement; probability and statistics; sets and logic. Broad in scope course, emphasizes applications. Prerequisite(s): A minimum score of 22 on the ACT, or a minimum score of 500 on the SAT, or three years of HS mathematics and a satisfactory score on an approved Mathematics Placement Assessment, or a C or better in MATH 96 or equivalent. 3 credit(s)

### **MATH 121 - Mathematical Topics and Applications Provided in a Real World Context**

Introduction to mathematical concepts such as: logic and analytic thinking, related rates, functions and relations, graphs and representations, properties of numbers, set theory, and consumer mathematics. Students will be exposed to topics within the context of practical applications. Technology will be incorporated. Prerequisite(s): Approval of Department Chair. Note(s): S/F grading only. 3 credit(s)

### **MATH 122 - Number Concepts for Elementary School Teachers**

Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasis on number concepts. MATH 122 does not satisfy the general education core mathematics requirement. Prerequisite(s): C or better in MATH 96 or a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test). 3 credit(s)

### **MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers**

Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing concepts in statistics and geometry. Prerequisite(s): C or better in MATH 122. 3 credit(s)

### **MATH 124 - College Algebra**

Equations and inequalities; relations and functions; linear, quadratic, polynomial, exponential, and logarithm functions; systems of linear equations and inequalities; matrices; sequences and series; binomial theorem. Prerequisite(s): A minimum score of 22 on the ACT or a minimum score of 500 on the SAT, or three years of HS mathematics and a satisfactory score on an approved Mathematics Placement Assessment, or a C or better in MATH 96. Note(s): Duplicate credits cannot be earned for MATH 124 and MATH 126 or MATH 128. 3 credit(s)

### **MATH 126 - Precalculus I**

Topics include fundamentals of algebra, functions and graphs, polynomial, rational, exponential, and logarithmic functions, and systems of linear equations. Prerequisite(s): A minimum score of 22 on the ACT or a minimum score of 500 on the SAT, or three years of HS mathematics and a satisfactory

score on an approved Mathematics Placement Assessment, or a C or better in MATH 96. Note(s): Duplicate credits cannot be earned for MATH 126 and MATH 124 or MATH 128. 3 credit(s)

### **MATH 127 - Precalculus II**

Topics include circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra. Prerequisite(s): Three years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or C or better in MATH 126 or equivalent. Note(s): Duplicate credits cannot be earned for MATH 127 and MATH 128. 3 credit(s)

### **MATH 128 - Precalculus and Trigonometry**

(Formerly listed as MATH 127) Relations, functions, and their graphs; polynomial, rational, exponential, logarithm, and trigonometric functions; analytic trigonometry; systems of equations and inequalities; conics; mathematical induction; sequences and series. A combination of MATH 126 and MATH 127. Prerequisite(s): Four years of high school mathematics at the level of algebra and above, and a satisfactory score on a placement exam (ACT, SAT, or Math Placement Test) or C or better in MATH 96 or equivalent. Note(s): Duplicate credits cannot be earned for MATH 128 and MATH 124, MATH 126, and MATH 127. 5 credit(s)

### **MATH 132 - Finite Mathematics**

Logic, sets, probability, matrices, and linear programming, and their application to the analysis of business and social science problems. Prerequisite(s): A minimum score of 24 on the ACT, or a minimum score of 560 on the SAT, or a satisfactory score on an approved Mathematics Placement Assessment, or a C or better in MATH 124 or MATH 126 or equivalent. 3 credit(s)

### **MATH 170 - Mathematics of Finance**

Mathematical study of interest, annuities, sinking funds, depreciation, amortization, and other topics related to business problems. Prerequisite(s): C or better in MATH 124 or equivalent. 3 credit(s)

### **MATH 176 - Introductory Calculus for Business and Social Sciences**

Techniques of calculus, with applications to the analysis of business and social science problems. Topics include functions of one and several variables, differentiation and partial differentiation, integration, and optimization. Prerequisite(s): C or better in either MATH 124 or MATH 126 or equivalent. Note(s): Duplicate credits cannot be earned for MATH 176 and MATH 181. 3 credit(s)

### **MATH 181 - Calculus I**

Differentiation and integration of algebraic and transcendental functions, with applications. Prerequisite(s): A score of 28 or higher on the ACT, or a score of 630 or higher on the SAT, or a satisfactory score on an approved Mathematics Placement Assessment, or C or better in MATH 127 or MATH 128 or equivalent. Note(s): Duplicate credits cannot be earned for MATH 176 and MATH 181. 4 credit(s)

### **MATH 182 - Calculus II**

Further applications and techniques of integration including integration by parts, sequences and series, polynomial approximations. Prerequisite(s): C or better in MATH 181. 4 credit(s)

### **MATH 213 - Introduction to Problem Solving Techniques**

Analyzing and solving standard and non-standard problems using a variety of different problem-solving techniques, tools, and technology. Emphasizes different approaches to solving problems and complete oral and/or written explanations of how to solve the problems. Prerequisite(s): C or better in MATH 122 or equivalent. 3 credit(s)

### **MATH 214 - Geometry for Middle School Teachers**

Study of one- two- and three-dimensional geometry, including figures, properties, and transformations, using classical and analytical methods. Emphasis on developing an appreciation for the widespread use of geometry and using geometry to solve problems. Prerequisite(s): C or better in MATH 123 or equivalent. 3 credit(s)



**MATH 251 - Discrete Mathematics I**

Topics include set operations, Cartesian product relations and functions, equivalence relation, graphs and digraphs, propositional calculus, truth tables, mathematical induction, elementary combinatorics with applications. Corequisite(s): C or better in MATH 182. 3 credit(s)

**MATH 271 - Elementary Probability**

Review of sets, counting, finite and countable probability spaces, random variables and distribution functions, statistical quantities, limit theorems, applications. Prerequisite(s): C or better in MATH 182 3 credit(s)

**MATH 283 - Calculus III**

Vectors; differentiation and integration of vector valued functions; multivariable calculus; partial derivatives; multiple integrals and applications; line, surface and volume integrals; theorem; divergence theorem; and theorem. Prerequisite(s): C or better in MATH 182. 4 credit(s)

**MATH 313 - Probability and Combinatorics for Teachers**

Topics include sets, functions, relations, propositional logic, induction, elementary combinatorics, and elementary graph theory. Prerequisite(s): C or better in MATH 182 or C or better in both MATH 181 and MATH 213. 3 credit(s)

**MATH 314 - History of Mathematics**

Evolution of mathematics from ancient numeral systems to twentieth-century mathematics. Effects of culture on mathematics and impact of mathematics on cultures also considered. Prerequisite(s): C or better in either MATH 313 or MATH 330 or MATH 365. 3 credit(s)

**MATH 320 - Mathematics of Interest**

Introduction to the mathematical theory underlying the measurement of interest, accumulated and present values, annuities, amortization, sinking funds, bonds, and securities. Prerequisite(s): C or better in either MATH 182, MATH 330 or MATH 365. 3 credit(s)

**MATH 330 - Linear Algebra**

Introduction to linear algebra, including matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors. Prerequisite(s): C or better in MATH 182. Note(s): Duplicate credits cannot be earned for MATH 330 and MATH 365. 3 credit(s)

**MATH 351 - Discrete Mathematics II**

Infinite sets, diagonal argument, first order logic, formal and informal proofs, combinatorics, Boolean algebra, lattices, and graphs. Prerequisite(s): C or better in MATH 251. 3 credit(s)

**MATH 360 - Introduction to Biomathematics I**

Introduction to the interdisciplinary field of biomathematics; mathematical models of biological systems; applied numerical methods and computer software for solving mathematical models. Prerequisite(s): BIOL 197, and C or better in MATH 181. Note(s): Duplicate credits cannot be earned for MATH 360 and BIOL 360. 3 credit(s)

**MATH 361 - Introduction to Biomathematics II**

A continuation to the study of biomathematics; part two will consider more advanced mathematical models of biological processes associated with advection, diffusion and pattern formation; computational methods for solving partial differential equations. Prerequisite(s): C or better in either BIOL 360 or MATH 360. Note(s): Duplicate credits cannot be earned for BIOL 361 and BIOL 361. 3 credit(s)

**MATH 365 - Computational Linear Algebra**

Matrices, linear systems of equations, linear programming, least-squares approximations, determinants, eigenvalues and eigenvectors, matrix inversion, elimination, iteration and other algorithms, precision and error analysis, of computational cost of algorithms. Emphasizes the practical methods using computer algorithms. Prerequisite(s): C or better in MATH 182; CS 117 or CS 135. Note(s): Duplicate credits cannot be earned for MATH 330 and MATH 365. 3 credit(s)

**MATH 415 - Graph Theory**

This course examines basic concepts and applications of graph theory. Topics include subgraphs, connectivity, trees, cycles, vertex and edge coloring, planar graphs and their colorings, Eulerian graphs, Hamiltonian graphs, matching and factorization, and the applications of graphs as models. Emphasis will be on proofs and proof techniques. Prerequisite(s): C or better in MATH 251 and MATH 330 or consent of instructor. 3 credit(s)

**MATH 427 - Differential Equations I**

Theory and solution techniques for solving ordinary differential equations with constant and variable coefficients, systems of linear differential equations, Laplace transform, difference equations and numerical methods. Fourier Series; stability theory and autonomous systems. Prerequisite(s): C or better in MATH 283 and C or better in either MATH 330 or MATH 365. Note(s): Duplicate credits cannot be earned in any two of MATH 427 and MATH 431. 3 credit(s)

**MATH 428 - Differential Equations II**

Theory and solution techniques for solving ordinary differential equations with constant and variable coefficients, systems of linear differential equations, Laplace transform, difference equations and numerical methods. Fourier Series; stability theory and autonomous systems. Prerequisite(s): C or better in MATH 427. Note(s): Duplicate credits cannot be earned in any two of MATH 427-428 and MATH 431-432. 3 credit(s)

**MATH 431 - Mathematics for Engineers and Scientists I**

First order linear and non-linear differential equations, second and higher order differential equations with constant coefficients, Laplace transforms and applications, Gaussian elimination and eigenvalue problems, solutions of systems of differential equations. Prerequisite(s): C or better in MATH 283. Note(s): Duplicate credits cannot be earned in any two of MATH 427-428 and MATH 431-432. 3 credit(s)

**MATH 432 - Mathematics for Engineers and Scientists II**

Topics include complex functions, analytic functions, Cauchy-Riemann equations, conformal mappings, linear fractional transformations, complex integration, integral theorem and formula, power series, Laurent series, and calculus of residues. Prerequisite(s): C or better in MATH 431 Note(s): Duplicate credit cannot be earned in any two of MATH 432 and MATH 459. 3 credit(s)

**MATH 451 - Foundations of Mathematics I**

Introduction to logic, set algebra and Boolean algebra, with applications to the theory of computing machines. Prerequisite(s): C or better in MATH 251. Note(s): This course is crosslisted with MAT 651. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 452 - Foundations of Mathematics II**

Formalization, proofs, and models of quantificational logic; axiomatics; application to mathematical theories, including set theory. Prerequisite(s): C or better in MATH 451. Note(s): This course is crosslisted with MAT 652. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 453 - Abstract Algebra I**

Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces. Prerequisite(s): C or better in MATH 251 and C or better in either MATH 330 or MATH 365. Note(s): This course is crosslisted with MAT 653. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 454 - Abstract Algebra II**

Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces. Prerequisite(s): C or better in MATH 453. Note(s): This course is crosslisted with MAT 654. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 455 - Elementary Theory of Numbers I**

Topics include divisibility, arithmetic functions, congruences, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions. Prerequisite(s): C or better in both MATH 251 and MATH 330. Note(s): This course is crosslisted with MAT 655. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 456 - Elementary Theory of Numbers II**

Topics include divisibility, arithmetic functions, congruences, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions. Prerequisite(s): C or better in MATH 455. Note(s): This course is crosslisted with MAT 656. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 457 - Introduction to Real Analysis I**

Topics include finite and infinite sets, axiomatic study of real numbers, topology of Cartesian spaces, sequences of functions, continuous functions, differentiation of functions of one variable. Prerequisite(s): C or better in both MATH 251 and MATH 283 and C or better in either MATH 330 or MATH 365. Note(s): This course is crosslisted with MAT 657. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 458 - Introduction to Real Analysis II**

Topics include uniform continuity and fixed point theorems, sequences of continuous functions, approximation theorems, Riemann-Stieltjes integral, uniform convergence and infinite integrals, series of functions, differentiation in  $\mathbb{R}^n$ . Prerequisite(s): C or better in MATH 457. Note(s): This course is crosslisted with MAT 658. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 459 - Elementary Complex Analysis**

Complex numbers, analytic functions, contour integration, conformal mapping, applications. Prerequisite(s): C or better in both MATH 251 and MATH 283. Note(s): Duplicate credit cannot be earned in MATH 459 and MATH 432. 3 credit(s)

**MATH 461 - Probability Theory**

Fundamental concepts of probability; random variables, binomial, Poisson, normal, chi-square, T, F and other distributions; transformations of random variables; conditional and marginal distributions; central limit theorem and concepts associated with the field of statistics. Prerequisite(s): C or better in both MATH 271 and MATH 283. Note(s): This course is crosslisted with MAT 661. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 462 - Stochastic Processes**

Markov chains and jump processes, elements of queuing theory, stationary stochastic processes, the Wiener process and stochastic differential equations. Prerequisite(s): C or better in MATH 461. 3 credit(s)

**MATH 463 - Advanced Matrix Theory and Applications**

Rigorous mathematical treatment of orthogonal matrices, Gram-Schmidt method, Q-R factorization, least-squares fits, eigenvalues and eigenvectors, linear difference equations, systems of linear differential equations, unitary similarities, theorem, discrete Markov processes, power method, quadratic forms, singular value decompositions, pseudo-inverse, systems of linear inequalities, and simplex method. Prerequisite(s): C or better in either MATH 330 or MATH 365. Note(s) This course is crosslisted with MAT 663. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 466 - Numerical Methods I**

Introduction to numerical mathematics and scientific computing. Topics including methods of error estimation, interpolation theory, numerical integration, and solutions of linear and non-linear equations. Emphasizes hands-on computer work based on these techniques. Prerequisite(s): C or better in MATH 182 and CS 202 or equivalent, and C or better in either MATH 330 or MATH 365. 3 credit(s)

**MATH 467 - Numerical Methods II**

Intermediate treatment of methods in computational linear algebra, numerical solutions of ordinary and partial differential equations, algorithmic design and analysis, and topics selected by the instructor. Prerequisite(s): C or better in MATH 466 and C or better in either MATH 427 or MATH 431. 3 credit(s)

**MATH 468 - Applied Finite Element Analysis**

Introduction to finite element method with computer applications to engineering continuum problems such as thermodynamics, solid/fluid mechanics. Topics include variational formulation of boundary value problems, natural and essential boundary conditions, discretization of domain based on rectangular, triangular, tetrahedral and other elements, with linear, quadratic and higher order polynomial approximations. Prerequisite(s): C

or better in MATH 431. Note(s): This course is crosslisted with MAT 668. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 469 - Combinatorics I**

Graph models, covering circuits, graph colorings, trees and searching, general counting methods for arrangements and selections, generating functions, recurrence relations, and inclusion-exclusion. Prerequisite(s): C or better in MATH 251 or equivalent. Note(s): This course is crosslisted with MAT 669. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 470 - Combinatorics II**

Advanced topics in combinatorics. Topics to be selected by the instructor. Prerequisite(s): C or better in MATH 469. Note(s): This course is crosslisted with MAT 670. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 471 - Actuarial Mathematics I**

Rigorous mathematical treatment of the following topics: survival distributions, life tables, life insurance, life annuities, net premiums, reserves. Prerequisite(s): C or better in both MATH 320 and STAT 411 or equivalent. 3 credit(s)

**MATH 472 - Actuarial Mathematics II**

Rigorous mathematical treatment of the following topics: multiple life functions, multiple decrement models, valuation theory for pension plans, insurance models, nonforfeiture benefits, dividends. Prerequisite(s): C or better in MATH 471. 3 credit(s)

**MATH 473 - Risk Theory**

Rigorous mathematical treatment of the following topics: insurance, individual risk models for short term, collective risk models, applications of risk theory. Prerequisite(s): C or better in STAT 411. 3 credit(s)

**MATH 480 - College Geometry**

Study of advanced geometrical topics using the methods of proof of elementary geometry. Prerequisite(s): C or better in MATH 181. Note(s): This course is crosslisted with MAT 680. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 483 - General Topology I**

Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology. Prerequisite(s): C or better in MATH 251 and C or better in either MATH 330 or MATH 365. Note(s): This course is crosslisted with MAT 683. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 484 - General Topology II**

Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology. Prerequisite(s): C or better in MATH 483. Note(s): This course is crosslisted with MAT 684. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 488 - Partial Differential Equations**

Method of separation of variables, Fourier series, divergence theorem and identities, equations of mathematical physics, initial and initial boundary value problems, well-posedness, heat conduction in a thin rod, vibrations of a string, equation, solution of the Dirichlet problem for a disc and for a rectangle. Prerequisite(s): C or better in either MATH 427 or MATH 431. 3 credit(s)

**MATH 489 - Advanced Mathematical Topics**

Undergraduate-level course in advanced topics of mathematics, depending upon the interest of faculty and students. Prerequisite(s): C or better in MATH 283. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with MAT 689. Credit at the 600-level requires additional work. 3 credit(s)

**MATH 491 - Problem Solving Workshop**

Intended for undergraduate students who enjoy solving mathematical olympiad style problems. Typically, such problems are rather challenging and require considerable mathematical ingenuity, but only a modest background. The main objective of the course is to hone problem solving skills and to prepare them for mathematical contests. Students in the course are expected to participate in the local and national mathematical competitions. Prerequisite(s): C or better in MATH 251 and consent of instructor. May be repeated to a maximum of six credits. Note(s): S/F grading only. 1-3 credit(s)

**MATH 499 - Independent Study**

Library research and reports on topics of mathematical interest. Prerequisite(s): C or better in MATH 283. May be repeated for credit with consent of Mathematical Sciences Department. Except under special circumstances, total credits limited to six. 1-3 credit(s)

**STAT 152 - Introduction to Statistics**

Basic statistical methods, with emphasis on application, descriptive statistics, graphic presentation, point and interval estimation, hypothesis testing, regression, experimental design. Prerequisite(s): C or better in MATH 126 or equivalent. 3 credit(s)

**STAT 391 - Applied Statistics for Biological Sciences**

Elements of probability, types of biological data, sampling, graphical display of data, commonly used distributions, sampling distributions, point estimations, interval estimation, testing of hypothesis, nonparametric tests, categorical data analysis, introduction to regression and design of experiments. Prerequisite(s): C or better in MATH 127 or equivalent. 3 credit(s)

**STAT 411 - Statistical Methods I**

Collection and representation of information; elements of probability; Bernoulli trials, hypergeometric, binomial, Poisson and normal distributions; statistical sampling, estimation; testing hypotheses; parametric procedures for one-sample and two-sample problems. 3 credit(s). Prerequisite(s): C or better in MATH 182. Note(s): Duplicate credits cannot be earned for STAT 411 and 491

**STAT 412 - Statistical Methods II**

Regression analysis; importance and essentials of statistically designed experiments, completely randomized design, randomized block design, factorial design, statistical quality control. Prerequisite(s): C or better in STAT 411. 3 credit(s)

**STAT 413 - Statistical Experimental Design**

Fundamental principles of analysis of variance; one-way, two-way, and higher order designs; nested designs; randomized blocks; split plot designs; Latin squares; multiple comparisons; and analysis of covariance. Prerequisite(s): C or better in STAT 411. 3 credit(s)

**STAT 463 - Applied Statistics for Engineers**

Elementary probability, commonly used discrete and continuous probability distributions, estimation and hypothesis testing, categorical data testing, regression, model building, analysis of variance, product and system reliability and engineering applications, and quality control. Prerequisite(s): C or better in MATH 283. 3 credit(s)

**STAT 467 - Introduction to Mathematical Statistics**

Introduction to statistical inference, distributions of random variables, common discrete and continuous probability models, transformations, limiting distributions, sufficiency, completeness, unbiased estimation, information inequality, method of moments, maximum likelihood estimation, Bayesian estimation, confidence intervals, hypothesis tests, uniformly most powerful tests, likelihood ratio tests and related procedures, linear models, and non-parametric models. Prerequisite(s): C or better in STAT 411. Note(s): This course is crosslisted with STA 667. Credit at the 600-level requires additional work. 3 credit(s)

**STAT 469 - Environmental Statistics I: Univariate Methods**

Principles of environmental sampling, testing for outliers, tests for normality, transformations for normality, sample size determinations, analysis of censored data, estimation of background contaminations, tolerance and confidence limits, calibration problem, quality control charts for data quality assessment of environmental data, statistical issues in environmental remediation, and probability of hot spot detection. Usage of statistical software packages. Prerequisite(s): C or better in STAT 411. Note(s): This course is crosslisted with STA 669. Credit at the 600-level requires additional work. 3 credit(s)

**STAT 488 - Senior Research Project in Statistics**

Special problem in an area of statistics for investigation and report. Prerequisite(s): C or better in STAT 411. 3 credit(s)

**STAT 489 - Advanced Statistics Topics**

Undergraduate course in advanced topics in statistics, depending upon the interest of faculty and students. Prerequisite(s): C or better in STAT 411. May be repeated to a maximum of six credits. 3 credit(s)

**STAT 491 - Statistics for Scientists I**

Frequency distributions, descriptive statistics, elementary probability; Bernoulli, binomial, and normal distributions; statistical sampling, estimation, and hypothesis testing. Less mathematical treatment than STAT 411. Prerequisite(s): C or better in either MATH 127 or MATH 128 or equivalent. Note(s): Duplicate credits cannot be earned for STAT 411 and 491. STAT 491 cannot count as credit for a 400 level requirement in the Department of Mathematical Science, or as part of a sequence. This course is crosslisted with STA 691. Credit at the 600-level requires additional work. 3 credit(s)

**STAT 492 - Statistics for Scientists II**

Chi-square tests for goodness-of-fit and independence, simple and multiple linear regression, designing an experiment (analysis of variance), multiple comparisons. Less mathematical treatment than STAT 412. Prerequisite(s): STAT 411 or STAT 467 or STAT 491. Note(s): Stat 492 cannot count as credit for a 400 level requirement in the Department of Mathematical Sciences, or as part of a sequence. This course is crosslisted with STA 692. Credit at the 600-level requires additional work. 3 credit(s)

**STAT 493 - Applied Regression Analysis**

Line fitting; multiple linear and curvilinear regression models; variable selection techniques and examination of residuals, estimation, testing, and prediction; simple, multiple, and partial correlation. Prerequisite(s): C or better in STAT 152 and consent of instructor or C or better in STAT 411, STAT 467 or STAT 491. 3 credit(s)

**STAT 495 - Nonparametric Statistics**

Survey of nonparametric procedures with emphasis on application; binomial, Mann-Whitney, Wilcoxon, Kruskal-Wallis, Friedman, Kolmogorov-Smirnov, and chi-square tests; measures of association; regression. Comparisons with parametric techniques. Prerequisite(s): C or better in STAT 152 and consent of instructor or C or better in STAT 411 or STAT 467 or STAT 491. Note(s): This course is crosslisted with STA 695. Credit at the 600-level requires additional work. 3 credit(s)

**STAT 499 - Independent Study**

Library research and reports on topics of statistical interest. Prerequisite(s): C or better in STAT 411. May be repeated for credit with consent of the Mathematical Sciences Department. Except under special circumstances, total credits limited to six. 1-3 credit(s)



# Physics and Astronomy

## ***Purpose and Focus***

The Bachelor of Science in Physics provides students with preparation for governmental or industrial positions or for graduate studies in physics or related areas.

## ***Degree Objectives/Learning Outcomes***

At the completion of the physics degree programs, students should have developed rigorous communication, analytical, computing, problem solving, and team-work skills.

## ***Accreditation***

Northwest Commission on Colleges and Universities.

## ***Undergraduate Major***

Physics - Bachelor of Science

Physics - Bachelor of Science, Applied Physics Concentration

Physics - Bachelor of Science, Computational Concentration

## ***Admission to the Major***

**Admission Policies:** Minimum GPA: 2.50

Students unable to meet the 2.50 GPA requirement with a GPA 2.0 or higher may be admitted under contract on a probationary basis. A probationary student must plan a prescribed course of study in physics in consultation with a faculty advisor assigned by the Department of Physics and Astronomy. Only after the course of study is signed by the advisor, may the Department Chair allow the student to register for courses. The student must maintain a GPA of at least 2.50 in the courses taken while on probation. Otherwise, the student will be dropped from the physics program. When the student's overall GPA rises to 2.50, the student is taken off probation.

**Transfer Policies:** A student transferring from another college or university who declares a major in Physics must meet university GPA requirements.

## ***Department Policies***

**Academic Policies:** For all majors in the programs offered by the Department of Physics and Astronomy, a grade of C or higher is required in each of the Physics Core Requirements. In addition, before enrolling in any major requirement courses, the student must have completed all course prerequisites with a grade of C or higher.

A probationary student must plan a prescribed course of study in physics in consultation with the faculty advisor assigned by the Department of Physics and Astronomy. Only after the course of study is signed by the advisor, may the Department Chair allow the student to register for courses. The student must maintain a GPA of at least 2.50 in the courses taken while on probation. Otherwise, the student will be dropped from the physics program. When the overall GPA rises to 2.50, the student is taken off probation. Refer to the College of Sciences section for further requirements.

## ***Advisement***

It is required that all incoming freshmen and transfer students obtain advising from the College of Sciences Advising Center and meet with the Chair of the Department of Physics and Astronomy prior to the first semester of classes. As well, those students with any questions regarding degree requirements and graduation applications should

contact the Advising Center. All students majoring in Physics, will also be assigned a faculty advisor in the Department of Physics and Astronomy. Students must meet with their advisor in the Department of Physics and Astronomy at least once a semester.

## **Physics Major - Bachelor of Science (BS)**

Please see the UNLV Department of Physics web page at [www.physics.unlv.edu/](http://www.physics.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the College of Science Student Advising Center [sci.advising@unlv.edu](mailto:sci.advising@unlv.edu)

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Learning Outcomes**

1. Understanding of classical mechanics
2. Understanding of electricity and magnetism
3. Understanding of thermodynamics
4. Understanding of modern physics and quantum mechanics
5. Ability to perform modern laboratory experiments
6. Ability to perform an independent physics research project and give a public talk on this project
7. Ability to communicate scientific subject matter
8. Understanding and ability to communicate the importance of physics to society
9. Ability to solve critical and fundamental problems in undergraduate physics
10. Ability and confidence to think independently

## **University Graduation Requirements**

- Please see Graduation Policies for complete information
- Physics Degree Requirements ..... Total: 120 Credits  
General Education Requirements ..... Subtotal: 33-36 Credits  
First Year Seminar ..... Credits: 2-3  
(see note 1 below)  
English Composition ..... Credits: 6
- ENG 101 - Composition I
  - ENG 102 - Composition II
- Second Year Seminar ..... Credits: 3  
Constitutions ..... Credits: 4-6  
Mathematics
- MATH 181 - Calculus I - Fulfilled by the major requirement
- Distribution Requirement ..... Credits: 18  
Please see Distribution Requirements for more information.
- Humanities and Fine Arts: 9 credits
    - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
  - Social Science:
    - One course each from three different fields
  - Life and Physical Sciences and Analytical Thinking - 9 credits
    - Automatically satisfied by Major requirements.

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.



Major Requirements - BS in Physics.....Subtotal: 77 Credits

Physics Core Requirements..... Credits: 48

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I
- PHYS 414 - Intermediate Laboratory II
- PHYS 421 - Electricity and Magnetism I
- PHYS 422 - Electricity and Magnetism II
- PHYS 423 - Mechanics I
- PHYS 424 - Mechanics II
- PHYS 467 - Thermodynamics
- PHYS 481 - Quantum Mechanics I
- PHYS 493 - Special Problems

Six additional credits of upper-division physics courses.

Related Core Requirements..... Credits: 36

- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory I
- CHEM 122A - General Chemistry II
- CHEM 122L - General Chemistry Laboratory II
- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III

Sixteen additional credits of science, mathematics, computer science, or engineering courses with at least six of them in upper-division courses (300 or higher).

Electives..... Credits: 0-3

Total Credits ..... 120

Major Degree Requirements - BS in Physics -

Applied Physics Concentration..... Subtotal: 73-75 Credits

Physics Core Requirements Credits 33

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I
- PHYS 421 - Electricity and Magnetism I
- PHYS 423 - Mechanics I
- PHYS 493 - Special Problems (3 credits)

Six additional credits of upper-divisions physics courses  
(see note 2 below)

Related Core Requirements..... Credits 39

- CHEM 121A - General Chemistry I
- CHEM 122A - General Chemistry II
- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III

Nineteen additional credits of science, mathematics, computer science, or engineering courses with at least six of them in upper-division courses (300 or higher).

Electives..... Credits: 9-14

Total Credits: ..... 120

**Major Degree Requirements - BS in Physics -  
Computational Physics Concentration** .Subtotal: 77 Credits

Physics Core Requirements Credits 39

- PHYS 180 - Physics for Scientists and Engineers I
- PHYS 180L - Physics for Scientists and Engineers Lab I
- PHYS 181 - Physics for Scientists and Engineers II
- PHYS 181L - Physics for Scientists and Engineers Lab II
- PHYS 182 - Physics for Scientists and Engineers III
- PHYS 182L - Physics for Scientists and Engineers Lab III
- PHYS 300 - Introduction to Physics and Scientific Computing
- PHYS 404 - Computational Techniques in Physics
- PHYS 411 - Modern Physics I
- PHYS 413 - Intermediate Laboratory I
- PHYS 421 - Electricity and Magnetism I
- PHYS 423 - Mechanics I
- PHYS 467 - Thermodynamics
- PHYS 481 - Quantum Mechanics I
- PHYS 493 - Special Problems

Related Core Requirements Credits 38

- MATH 181 - Calculus I
- MATH 182 - Calculus II
- MATH 283 - Calculus III
- CS 135 - Computer Science I
- CS 202 - Computer Science II
- MATH 365 - Computational Linear Algebra

Seventeen (17) additional credits of science, mathematics, computer science, or engineering courses.

Electives..... Credits: 7-10

Total Credits: ..... 120

## Notes

1. It is strongly recommended that students take SCI 101 to satisfy the First Year Seminar requirement.
2. The Department of Physics and Astronomy recommends that students take PHYS 422 and PHYS 424 for the six additional credits of upper-division physics courses needed in the Physics Core Requirements.

## Minor

### Physics Minor

Requirements ..... Total Credits: 27

PHYS 180 - Physics for Scientists and Engineers I

PHYS 180L - Physics for Scientists and Engineers Lab I

PHYS 181 - Physics for Scientists and Engineers II

PHYS 181L - Physics for Scientists and Engineers Lab II

PHYS 182 - Physics for Scientists and Engineers III

PHYS 182L - Physics for Scientists and Engineers Lab III

PHYS 411 - Modern Physics I

PHYS 413 - Intermediate Laboratory I

Nine additional credits (three courses) of upper-division physics course work.

No course in which a grade of C- or lower is earned may be applied to any minor in the College of Sciences.

## **Astronomy**

### **AST 100C - Topics in Astronomy: White Dwarfs, Neutron Stars, and Black Holes**

Traces the history of a star's evolution from its birth in interstellar gas and dust to its end as a placid white dwarf, fiery nova or supernova, or mysterious black hole. Emphasis upon the archetypical Crab Nebula and its rotating neutron star. Prerequisite(s): Consent of instructor. Note(s): Recommended for non-science majors. 1 credit(s)

### **AST 103 - Introductory Astronomy: The Solar System**

Beginning level survey that discusses the nearby objects of our solar system, the formation and evolution of planetary bodies and the exploration of space. A minimum of mathematics is required. Note(s): Recommended for non-science majors. 3 credit(s)

### **AST 104 - Introductory Astronomy: Stars and Galaxies**

Survey course at the beginning level which discusses stellar systems and galaxies. Topics include stellar evolution, formation of galaxies, and cosmology. A minimum of mathematics is required. Note(s): Recommended for non-science majors. 3 credit(s)

### **AST 105 - Introductory Astronomy Laboratory**

Laboratory exercises in astronomy presented in the tradition of the amateur astronomer. Instruction includes observation of celestial objects as well as laboratory exercises to investigate the physical nature of astronomical objects. Instruction on the use of telescopes and the process of the scientific method presented. Prerequisite(s): AST 103 or AST 104, or concurrent registration in one of these courses. Note(s): Recommended for non-science majors. 1 credit(s)

### **AST 190 - Projects in Observational Astronomy**

Project-oriented course to develop skills in observational astronomy. The material and experience gained quite helpful to those people interested in education or in astronomy. The use of high quality equipment such as cameras, photometers, telescopes, and heliostats emphasized. Prerequisite(s): AST 105. Note(s): Laboratory course recommended for non-science majors. 3 credit(s)

### **AST 301 - Introduction to Astrophysics**

Introduction to modern astrophysics. Discussion of matter and electromagnetic radiation, the physical processes in stars, galaxies, active galactic nuclei, and the large-scale structure of the Universe. Emphasis on applying physical principles and problem-solving techniques to astronomical situations. Prerequisite(s): PHYS 180. 3 credit(s)

### **AST 470 - Special Topics in Astrophysics**

Advanced astrophysics. Material alternates among three topics: solar system astrophysics, stellar structure and evolution, and galactic dynamics. Emphasis on current areas of interest. Prerequisite(s): PHYS 180, PHYS 181, PHYS 182, and PHYS 411. 3 credit(s)

### **PHYS 108 - Physics For A Better Environment**

This is a survey course on energy issues, including the challenges facing us today. Simple physics will be introduced to analyze production and consumption of energy and their impact on the environment. The level is set for beginning students in any field. 3 credit(s)

### **PHYS 108L - Physics for a Better Environment Laboratory**

Laboratory exercises on energy issues, including the challenges facing us today. Simple physics experiments will be used to analyze the work-energy relationship, energy conservation, and environment related energy problems. Prerequisite(s): PHYS 108, or concurrent registration in PHYS 108. 1 credit(s)

### **PHYS 109 - The Physics of Climate Change**

This is a survey course on climate change. Simple physics will be introduced to analyze the absorption and emission of light by the atmosphere and the effect of various gases on these processes. The level is set for beginning students in any field. 3 credit(s)

### **PHYS 120 - Introduction to Einstein's Spacetime**

Algebra-based exploration of Einstein's theory of Special Relativity covering time dilation, length contraction, the addition of velocities, the Lorentz transformation, the Twin Paradox, Minkowski space-time diagrams, and other topics time permitting. Beauty and consistency of Special Relativity emphasized. 3 credit(s)

### **PHYS 151 - General Physics I**

General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics. Prerequisite(s): MATH 128 or equivalent, or placement test. PHYS 151/ PHYS 151L is prerequisite for /152L PHYS 152 / PHYS 152L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **PHYS 151L - General Physics I**

General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics. Prerequisite(s): MATH 182 or MATH 126 and MATH 127, or MATH 181 and PHYS 151L. PHYS 151L is prerequisite for PHYS 152/ PHYS 152L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 0 credit(s)

### **PHYS 152 - General Physics II**

General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics. Prerequisite(s): MATH 128 or equivalent, or placement test. PHYS 151 / PHYS 151L is prerequisite for PHYS 152/ PHYS 152L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 4 credit(s)

### **PHYS 152L - General Physics II**

General physics intended primarily for students in liberal arts, medicine, and the biological sciences. Lecture and laboratory exercises in mechanics, heat, electricity, magnetism, optics, and modern physics. Prerequisite(s): MATH 128 or equivalent, or placement test. PHYS 151 / PHYS 151L is prerequisite for PHYS 152 /152L. Lab/Lecture/Studio Hours Three hours lecture and three hours laboratory. 0 credit(s)

### **PHYS 180 - Physics for Scientists and Engineers I**

Lecture in Newtonian mechanics. Rectilinear motion, particle dynamics, work and energy, momentum and collisions, rotational mechanics, oscillations, wave motion, and gravitation. Prerequisite(s): MATH 181. 3 credit(s)

### **PHYS 180L - Physics for Scientists and Engineers Lab I**

Laboratory exercises in Newtonian mechanics. Rectilinear motion, particle dynamics, work and energy, momentum and collisions, rotational mechanics, oscillations, wave motion, and gravitation. Corequisite(s): PHYS 180. 1 credit(s)

### **PHYS 181 - Physics for Scientists and Engineers II**

Lecture in electromagnetism. Coulomb's law, electric and magnetic fields, Gauss' law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations, and electromagnetic waves. Prerequisite(s): PHYS 180 and MATH 182. 3 credit(s)

### **PHYS 181L - Physics for Scientists and Engineers Lab II**

Laboratory exercises in electromagnetism, Coulomb's law, electric and magnetic fields, Gauss' law, potential, capacitance, current and resistance, electromotive force, inductance, motion of charged particles, introduction to Maxwell's equations, and electromagnetic waves. Corequisite(s): PHYS 181. 1 credit(s)

### **PHYS 182 - Physics for Scientists and Engineers III**

Lecture in fluid mechanics, thermodynamics, and optics. Sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction to modern developments. Prerequisite(s): PHYS 180 and MATH 182. 3 credit(s)

**PHYS 182L - Physics for Scientists and Engineers Lab III**

Laboratory exercises in fluid mechanics, thermodynamics, and optics. Sound, temperature and thermometry, heat, gases, intermolecular forces, kinetic theory, entropy, nature of light, geometrical optics, physical optics including diffraction and interference, introduction to modern developments. Corequisite(s): PHYS 182. 1 credit(s)

**PHYS 191 - Directed Study**

Individual projects under the direction of a faculty member. Prerequisite(s): Three credits of physics. Note(s): Department approval must be obtained prior to registration. 1-3 credit(s)

**PHYS 250 - Special Relativity**

In-depth introduction to the space time of special relativity with emphasis on coherence brought about by the union of three-dimensional Euclidean space time to form a four-dimensional space. Prerequisite(s): PHYS 180 or consent of instructor. 3 credit(s)

**PHYS 300 - Introduction to Physics and Scientific Computing**

Basic concepts and methods in solving scientific problems in physics and other disciplines computationally. Emphasis on problems not commonly solvable by analytical means. Hands-on experience with real-life problems in physics and scientific computing. Prerequisite(s): PHYS 152, PHYS 152L or PHYS 180, PHYS 180L. 3 credit(s)

**PHYS 350 - Introduction to General Relativity**

Physics in and around black holes is used as a vehicle for learning about the implications of general relativity. Prerequisite(s): PHYS 250 or consent of instructor. 3 credit(s)

**PHYS 404 - Computational Techniques in Physics**

Application of numerical methods to simulation of physical systems, including topics in classical mechanics, electrostatics, quantum mechanics, scattering, nonlinear dynamics and chaos. Prerequisite(s): PHYS 181, PHYS 182 and experience with high-level programming language. Note(s): This course is crosslisted with PHYS 604. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 411 - Modern Physics I**

Those aspects of quantum and statistical mechanics and relativity necessary to describe the changes in the physicist's world view wrought by revolutionary theories early in the last century. Prerequisite(s): PHYS 181, PHYS 181L, PHYS 182, PHYS 182L. 3 credit(s)

**PHYS 412 - Modern Physics II**

Continuation of the survey of twentieth-century developments in physics. Topics include simple molecular quantum mechanics, quantum statistics, solids, superfluids and superconductors, nuclear processes and models, and elementary particle physics. Prerequisite(s): PHYS 411. 3 credit(s)

**PHYS 413 - Intermediate Laboratory I**

Experimental investigation of a variety of phenomena involving the properties of electrons and their interactions with fields and matter, including selected quantum and wave mechanical effects. Experiments designed to reinforce theory learned in previous courses and to develop laboratory techniques. Corequisite(s): PHYS 411. 3 credit(s)

**PHYS 414 - Intermediate Laboratory II**

Further experimental investigations of phenomena in classical and modern physics. Emphasis on problem solving, experimental technique, data analysis, and independent work. Students encouraged to alter or extend the experiments and engage in projects. Prerequisite(s): PHYS 413. Note(s): This course is crosslisted with PHYS 614. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 421 - Electricity and Magnetism I**

Electrostatics, magnetic fields, and electromagnetism. Maxwell's equations, theory of metallic conduction, motion of charged particles, radiation. Prerequisite(s): PHYS 181, PHYS 421 is prerequisite for PHYS 422. 3 credit(s)

**PHYS 422 - Electricity and Magnetism II**

Electrostatics, magnetic fields, and electromagnetism. Equations, theory of metallic conduction, motion of charged particles, radiation. Prerequisite(s): PHYS 181, PHYS 421 is prerequisite for PHYS 422. Note(s): This course is crosslisted with PHYS 622. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 423 - Mechanics I**

Newtonian mechanics. Mathematical formulation of the dynamics of a particle and systems of particles, including applications to atomic physics. Mechanics of continuous media using Fourier series. Introduction to generalized coordinates and the methods of Lagrange and Hamilton. Prerequisite(s): PHYS 180. PHYS 423 is prerequisite for PHYS 424. 3 credit(s)

**PHYS 424 - Mechanics II**

Newtonian mechanics. Mathematical formulation of the dynamics of a particle and systems of particles, including applications to atomic physics. Mechanics of continuous media using Fourier series. Introduction to generalized coordinates and the methods of Lagrange and Hamilton. Prerequisite(s): PHYS 180. PHYS 423 is prerequisite for PHYS 424. Note(s): This course is crosslisted with PHYS 624. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 426 - Physics of Solids**

Structure of crystalline solids. Mechanical, thermal, and electric properties of conducting and non-conducting solids. Prerequisite(s): PHYS 411. Note(s): This course is crosslisted with PHYS 626. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 431 - Nuclear and Elementary Particle Physics**

Survey of basic nuclear concepts and structure. Interactions between nuclear radiations and matter, nuclear reactions and decay, nuclear force, sub-atomic structure and models, symmetries and conservation laws. Prerequisite(s): PHYS 411. Note(s): This course is crosslisted with PHYS 631. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 441 - Mathematical Physics**

Application of selected mathematical techniques to problems in physics. Prerequisite(s): PHYS 181. Note(s): This course is crosslisted with PHYS 641. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 442 - Mathematical Physics II**

Application of selected mathematical techniques to problems in physics. Prerequisite(s): PHYS 181, PHYS 441. Note(s): This course is crosslisted with PHYS 642. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 451 - Modern Scientific Instrumentation**

Electronics for scientists, including circuit design and construction using analog and digital integrated circuits. Introduction to machining, glassblowing, and fabrication techniques. Prerequisite(s): PHYS 181, PHYS 181L, PHYS 182, PHYS 182L, PHYS 422. Note(s): This course is crosslisted with PHYS 651. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 461 - Light and Physical Optics**

Survey of geometric optics and optical instruments. Selected topics in physical optics including interference, diffraction and polarization, with applications; the nature of light. Prerequisite(s): PHYS 182. Note(s): This course is crosslisted with PHYS 661. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 462 - Modern Optics and Photonics**

Laser principles and applications. Non-linear optics, image formation, optical transfer function, and Fourier optics. Introduction to quantum optics. Prerequisite(s): PHYS 461. Note(s): This course is crosslisted with PHYS 662. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 467 - Thermodynamics**

Fundamentals of thermodynamics, including equations of state, laws of thermodynamics, and entropy. Principles and methods of temperature measurement, calorimetry and heat transfer. Prerequisite(s): PHYS 182. Note(s): This course is crosslisted with PHYS 667. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 468 - Statistical Mechanics**

Principles and applications of statistical mechanics. Quantum statistics of ideal gas and simple solids. Transport theory, irreversible processes and fluctuations. Prerequisite(s): PHYS 467. Note(s) This course is crosslisted with PHYS 668. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 481 - Quantum Mechanics I**

Introduction to the Schroedinger Equation and the interpretation of its solutions, the uncertainty principles, one-dimensional problems, harmonic oscillator, angular momentum, the hydrogen atom. Prerequisite(s): PHYS 422 and PHYS 424. Note(s): This course is crosslisted with PHYS 681. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 482 - Quantum Mechanics II**

Introduction to the matrix formulation of quantum mechanics, spin, coupling of angular momenta and applications. Time dependent perturbation theory and approximation methods and techniques discussed. Prerequisite(s): PHYS 481. Note(s): This course is crosslisted with PHYS 682. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 483 - Special Topics in Physics**

Special topics in physics such as, but not limited to, relativity, plasma physics, hydrodynamics, and particle physics. Prerequisite(s): PHYS 182. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with PHYS 683. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 485 - Condensed Matter Physics**

Properties of condensed matters and their applications in materials science. Structures of classical and quantum liquids. Correlations in lower dimensional systems. Localization and magnetism. Superconductivity and superfluidity. Polymers and liquid crystals. Prerequisite(s): PHYS 481. Note(s): This course is crosslisted with PHYS 685. Credit at the 600-level requires additional work. 3 credit(s)

**PHYS 491 - Independent Study**

Independent study of a topic in physics not specifically included in the regular course offerings. Grade depends on requirements outlined in a written contract between student and instructor agreed upon prior to beginning the course. Prerequisite(s): PHYS 180, PHYS 180L, PHYS 181, PHYS 181L, PHYS 182, PHYS 182L and consent of instructor. 1-3 credit(s)

**PHYS 493 - Special Problems**

Laboratory or research work on a project that demonstrates the student's ability to apply his or her knowledge of physics. A 30-minute talk on the project required. Prerequisite(s): Nine credits of upper-division physics courses and consent of instructor. 1-3 credit(s)

**SCI 101 - Introduction to the University for Science Majors**

SCI 101 is a first year course (fulfills First Year Seminar requirement) designed to foster understanding of scientific methodology, discourse, and ethics, develop analytical and critical thinking skills, and to help students explore, discover, and connect with the university and its academic and scientific resources. Note(s): Fulfills First Year Seminar requirement. 2 credit(s)

**SCI 111 - A Preview of Dentistry**

Introduces students to the dental profession. Presentations by professionals in various fields expose students to all available options within the profession. Information regarding preparatory coursework and timelines that ensure maximal competitiveness during the application cycle is presented. Students may interact with admissions officials and administrators from the UNLV-SDM. Note(s): S/F grading only. 1 credit(s)

**SCI 150 - Modern Biology for Wildland Fire Personnel I**

This course is for federal wildland fire personnel. It covers the structural and chemical nature of cells, complex organisms and cellular environments, genetics, reproduction and energetics. There is no laboratory component. This course satisfies the General Education Core requirement for science, but is not for credit toward a science degree. Prerequisite(s): Permission of instructor. 3 credit(s)

**SCI 410L - Standardized Test Lab**

Laboratory review of basic sciences for standardized tests required for application to Health Science Professional School. Prerequisite(s): BIOL 196, 197, CHEM 121A, CHEM 121L, CHEM 122A, CHEM 122L, CHEM 241, 242, PHYS 151, PHYS 152. Lab/Lecture/Studio Hours Three credit laboratory course. Note(s): Practice examinations administered on Saturday's. 3 credit(s)

**SCI 499 - Training in Science Leadership**

Seminar course designed to develop and hone leadership skills. Students acquire skills required for proctoring examinations, tutoring of undergraduate students, teaching undergraduate students, and supervising student evaluation of teaching. Prerequisite(s): Sophomore or higher standing, cumulative GPA of 3.00 or higher. Note(s): Students receive education regarding ethics that are essential for responsibilities. 3 credit(s)



# Greenspun College of Urban Affairs

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## ***Purpose and Focus***

The Greenspun College of Urban Affairs is dedicated to the personal and academic development of its students, the advancement of the theoretical and applied body of knowledge of its disciplines, and the improvement of public policy and professional practices. Undergraduate study in the college emphasizes improvement of the quality of urban life through preparing students for professional practice in each of its disciplines. This is accomplished by participating in a dynamic partnership of interdisciplinary learning, service, and scholarship that is founded on active collaboration among students, faculty, professionals, and community members. Faculty in the college are scholars, as well as professionals, who are well qualified to guide the development of students into discipline-based professional practice.

The College is also committed to ensuring student success by engaging in high-impact learning practices; specifically, our programs promote service-learning, undergraduate research with faculty, and learning communities. Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the associations between disciplines, better connections with peers, improved student engagement and involvement on campus, as well as an increased satisfaction with the college experience.

## ***Departments/Schools, Majors, and Minors***

### **College of Urban Affairs**

#### **Department of Communication Studies**

Communication Studies — Bachelor of Arts

#### **Department of Criminal Justice**

Criminal Justice — Bachelor of Arts

#### **School of Environmental and Public Affairs**

Environmental Studies — Bachelor of Arts

Environmental Studies — Bachelor of Science

Public Administration — Bachelor of Science

#### **Hank Greenspun School of Journalism and Media Studies**

Journalism and Media Studies — Bachelor of Arts

#### **Marriage and Family Therapy Program**

#### **School of Social Work**

Social Work — Bachelor of Social Work

## ***Graduate Degree and Certificate Programs***

Communication Studies — Master of Arts

Criminal Justice — Master of Arts, Professional Master's Degree

Journalism and Media Studies — Master of Arts

Marriage & Family Therapy — Master of Science

School of Environmental and Public Affairs — Doctor of Philosophy in Environmental Studies, Master of Science in Environmental Studies, Doctor of Philosophy in Public Affairs, Master of Public

Administration, Doctor of Philosophy in Workforce Development and Organizational Leadership, Master of Arts in Urban Leadership, Executive Master's in Crisis and Emergency Management, Certificate in Public Management, Certificate in Nonprofit Management Social Work — Juris Doctor/Master of Social Work, Master of Social Work

## ***Minors***

Brookings Public Policy

Communication Studies

Criminal Justice

Environmental Studies

Family Studies

Journalism and Media Studies

Leadership and Civic Engagement

## ***Admission to the College***

Minimum GPA: 2.00

**Admission Policies:** Students are admitted to degree programs offered by the departments and schools in the college; thus, admission requirements vary and prospective students should consult departmental/school requirements in the appropriate sections. The Greenspun College of Urban Affairs has an overall cumulative 2.00 grade point average entrance and graduation requirement. Individual departments and schools within the Greenspun College of Urban Affairs may have specific requirements for their majors.

**Transfer Policies:** Students should refer to the Student Advising Center for the specific articulation of transfer credit. University policies require that a candidate for the bachelor's degree must complete the last 30 semester credits in uninterrupted residence as a major in the college from which the degree is expected.

## ***College Policies***

**Academic Requirements:** All majors in Greenspun College of Urban Affairs are required to take Civic Engagement in Urban Communities, GSC 300. This course also meets the second-year seminar general education requirement.

**Probation/Suspension:** Students whose cumulative GPA falls below a 2.00 will be put on university probation.

Students should consult with the Student Advising Center regarding the college's processing for the university's probation policy and for the procedure for reinstatement following university suspension.

## ***Advisement***

Upon acceptance as a major or minor, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure timely progress and completion of degree

requirements students should meet with an advisor once a semester. Upon acceptance as a premajor or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center at 702-895-1009 to set up an advising appointment.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major. The Advising Center is located on the fourth floor of Greenspun Hall.

## **Brookings Public Policy Minor**

### ***Purpose and Focus***

The UNLV - Brookings Curriculum offers a multidisciplinary curriculum based upon local, national and global themes. UNLV – Brookings courses unite the best teaching and scholarship of UNLV faculty and Brookings experts. This unique collaboration draws upon the diverse faculty and programmatic interests of UNLV to link knowledge, academic inquiry, and practice with the outstanding policy programs of the Brookings Institution.

The UNLV-Brookings collaboration recognizes its responsibility to present multiple perspectives and enhance critical thinking and decision making skills in a broad range of subject areas such as geography, economics, political science, public policy, international security, the environment, history, science, foreign languages, language arts, and fine and applied arts.

In an increasingly diverse society, at a metropolitan university located in the heart of a global city, the UNLV-Brookings Curriculum recognizes the unique needs of today's linguistically, ethnically, and socially diverse classrooms and is committed to creating curriculum materials that model effective ways of working with students of all backgrounds.

UNLV students are coming of age in a world of global markets where democratic forms of government emerge, struggle, and adapt amid a technological revolution that continues to alter how we think, act, and live on a daily basis. The UNLV-Brookings Curriculum addresses the challenge of effective teaching, learning, and communication in this ever-changing global environment. UNLV faculty and students, in collaboration with Brookings colleagues, will meet this challenge, and help build sustainable local, national, and global communities.

In UNLV-Brookings courses students will:

- Learn about real people in real places
- Link societies by their connections and commonalities as much as by their differences
- Integrate general issues of globalization, past and present, into the study of specific people and places in the world
- Include cross-disciplinary approaches to break down conventional academic barriers
- Emphasize experiential as well as classroom learning
- Foster research and information literacy through coordinated lectures, readings, and assignments

**Admission Policies:** Students may declare Brookings Policy as a minor at anytime subsequent to being matriculated. Students must have a minimum overall GPA of 3.00 to declare and to graduate with a minor in Brookings Policy.

**Academic Policies:** Students may declare Brookings Policy as a

minor at anytime subsequent to being matriculated. Students must have a minimum overall GPA of 3.00 to declare and to graduate with a minor in Brookings Policy.

A minimum overall GPA of 3.00 must be maintained in order to continue in the Brookings Policy minor.

### ***Advisement***

Upon acceptance into the minor, we recommend that students meet with an advisor from the Greenspun College of Urban Affairs Advising Center (895-1009). Students should meet with their advisor prior to each semester they are taking classes. The program has developed a schedule of when classes will be offered. Meeting with an advisor will ensure the student stays on track and can graduate in a timely manner.

Courses Include ..... Total Credits: 18  
Participating students must complete

- GSC 101 - Brookings: Introduction to Public Policy
- four of the following upper-division courses:
- PSC 4010 - U.S. Elections and Governance
  - ECON 312 - Global Economics and Development
  - ECON 313 - Economics of Public Policy
  - GSC 440 - Brookings: Metropolitan Policy
  - PSC 405W - New Issues in Foreign Policy

Capstone course requirements include a research paper written under the supervision of a Brookings scholar and/or UNLV faculty member affiliated with Brookings Mountain West. Selected research papers may be published by Brookings Mountain West and/or the Brookings Institution.

## ***Brookings Public Policy***

### **GSC 100 - First Year Experience Seminar**

Formerly Listed as COM 100

Introduces students to the academic environment, develops skills and desire for life-long learning. Students receive instruction and practical application opportunities in research methods, inquiry and critical thinking, study skills, communication across multiple platforms, citizenship, ethics, and diversity. Instruction is intended to give students a strong basis for a successful academic life. Note(s): Fulfills the First Year Seminar requirement. 3 credit(s)

### **GSC 101 - Brookings: Introduction to Public Policy**

This course is an introduction to the public policy debate "inside the Beltway" of Washington, DC. The course focuses on both domestic and foreign policy issues. Topics include: economic studies, foreign affairs, governance and political analysis, and metropolitan policy. 3 credit(s)

### **GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities**

This course introduces students to principles of citizenship in a democratic society. It will focus on civic engagement, with emphasis on the urban environment and urban issues in a multicultural/ global context. Ultimately, this course will explore societal issues and the roles citizens can play to positively impact their communities. Prerequisite(s): ENG 102 (or equivalent), First Year Seminar (or equivalent), PUA 241 and COM 216, CRJ 270, ENV 205, MFT 225, SW 315, JOUR 305. Note(s): Fulfills the Second Year Seminar requirement. 3 credit(s)

### **GSC 400 - Brookings: Analyzing National Governance Issues**

Course covers public policy issues relevant to governance in the U.S. Topics may include demographics, economics, elections, energy, immigration, social welfare, and other domestic policy areas. Prerequisite(s): GSC 101. May be repeated up to six credits, but can only be used one time for Brookings Minor. Note(s): Specific course topics may vary by semester. 3 credit(s)

### **GSC 410 - Brookings: National Economic Studies**

Course explores the development and implementation of national economic policy. Analysis of local, state, regional, and national policies and their impact on our economic and political system. Prerequisite(s): GSC 101. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor. Note(s): Specific course topics may vary by semester. 3 credit(s)

### **GSC 420 - Brookings: U.S. Foreign Policy**

Course covers a variety of public policy issues relating to the development and implementation of U.S. foreign policy with a special emphasis on globalization and national security. Prerequisite(s): GSC 101. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor. Note(s): Specific course topics may vary by semester. 3 credit(s)

### **GSC 430 - Brookings: Global Development**

Course focuses on global economic policy and development. Students study international macroeconomics, political economy, and international relations to examine today's most pressing issues including poverty, individual freedom, and human rights. Prerequisite(s): GSC 101. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor. Note(s): Specific course topics may vary by semester. 3 credit(s)

### **GSC 440 - Brookings: Metropolitan Policy**

Course covers policy topics facing metropolitan America with emphasis on the Southwest. Students examine economic, demographic, and technological challenges to understand how communities may be more inclusive, economically competitive, and sustainable. Prerequisite(s): GSC 101. May be repeated to a maximum of six credits, but can only be used one time for Brookings Minor. Note(s): Specific course topics may vary by semester. 3 credit(s)

## **Department of Communication Studies**

### ***Purpose and Focus***

The Communication Studies program promotes the growth of knowledge about communication and its uses to achieve individual, group, and societal goals. Students learn about the functions, processes, channels, and influences of communication and can specialize in interpersonal or public communication. Students in communication work to acquire proficiency in critical analysis, argumentation and presentation (oral and written), and research methods.

### ***Undergraduate Major***

Communication Studies

### ***Areas of Concentration***

Interpersonal Communication

Public Communication

### ***Admission to the Major***

Minimum GPA: 2.00

**Admission Policies:** Students will be assigned a Pre-Communication Major (PRE-COM) designation until they have completed the following pre-major requirements:

1. Communication core (nine credits)  
COM 101 or HON 101, COM 102, and COM 216
2. UNLV general education core courses (16 to 18 credits total):  
ENG101 and ENG 102, U.S. and Nevada Constitutions

requirement, and six credits chosen from the remaining general education core requirements. All courses satisfying PRE-COM requirements must be completed with at least a C (2.0) grade (C- is unacceptable). PRE-COM designates may not enroll in upper-division COM courses (300–400 level). Upon completion of the pre-major requirements, students may request admission to the major.

**Transfer Policies:** Transfer students will be assigned a PRE-COM designation until they have completed the pre-major requirements described above and must meet with an academic advisor in the college's Student Advising Center for articulation of transfer credit.

### ***Department Policies***

**Academic Policies:** Students must be communication majors during the completion of the last 30 credits taken at UNLV in fulfillment of the 120-credit graduation requirement.

Communication courses may not be used to satisfy more than one requirement, with the exception of international and multicultural requirements.

Only course work in the major for which a grade of C or above (C- is not acceptable) is received will count toward satisfaction of the degree requirements. Maintenance of a minimum UNLV 2.00 GPA is required to remain in and graduate from the program.

Students must complete 42 upper-division (300–400) level credits, including 21 upper-division credits in communication.

**Outside Area of Interest:** Each Communication degree plan includes an outside area of interest, which consists of 15 credits in a particular area of study in a university program other than Communication Studies to be determined in consultation with the academic advisor. Courses used to complete a minor, dual major, or study abroad experience may be used to satisfy this requirement.

**Change of Major:** Change of status from pre-major to major requires the student to acquire a change of major form from the Student Advising Center where the form will be processed

### ***Internships***

Practical application of classroom experience is available to junior or senior students through internships. A student is expected to have completed at least 12 credits appropriate to the internship and to have at least a 3.00 GPA. A student may complete up to six credits of internship, but only three credits may be used to fulfill degree requirements in the major.

### ***Advisement***

Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Communications Department strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a pre-major or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or [urbanaffairs@unlv.nevada.edu](mailto:urbanaffairs@unlv.nevada.edu) or may be visited in person on the 4th Floor of Greenspun Hall.

## Communication Studies Major- Bachelor of Arts (BA)

Please see the UNLV Greenspun Department of Communications Studies web page at [communicationsstudies.unlv.edu](http://communicationsstudies.unlv.edu) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center [urbanaffairs.unlv.edu/advising](http://urbanaffairs.unlv.edu/advising)

Accreditation  
Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

Learning Outcomes

1. Define communication in interpersonal and rhetorical contexts
2. Analyze and evaluate messages and interaction in interpersonal and rhetorical
3. Identify and explain historical developments and key theories in interpersonal and rhetorical communication
4. Explain and recognize self-reflexivity in interpersonal and rhetorical contexts
5. Critically analyze and evaluate published research articles
6. Explain and recognize multiple perspectives in interpersonal and rhetorical communication
7. Successfully conduct research in interpersonal and /or rhetorical communication at a level appropriate for undergraduate students
8. Explain and recognize ethical and unethical interpersonal and rhetorical communication

### University Graduation Requirements

- Please see Graduation Policies for complete information

Degree Requirements.....Total: 120 Credits

Recommended Courses That Meet General Education Requirements Core

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

Seminars

First-Year Seminar

- GSC 100 - First Year Experience Seminar

Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitution

- PUA 241 - Survey of Public Administration

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Life and Physical Science

- ENV 101 - Introduction to Environmental Science
- ENV 220 - Introduction to Ecological Principles

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- MFT 225 - Multicultural Issues and Families

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

In addition

Incoming freshmen are strongly encouraged to join a Learning Community (LC) during their first year at UNLV. A Learning Community is a cohort of students who take coursework together and might benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connection with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

General Education Requirements.....Subtotal 36-40 credits

First-Year Seminar .....Credits: 2-3

English Composition .....Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar .....Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions .....Credits: 4-6

Mathematics.....Credits: 3

MATH 120 or higher

Distribution Requirements .....Credits: 18-19

(See Recommended courses That Meet General Education Core Requirements)

Multicultural and International

(See Recommended Courses That Meet General Education Core Requirements)

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Degree Requirements -

BA in Communications Studies .....Subtotal: 36 Credits

Communication Studies Pre -Major - Credits: 9

- COM 101 - Oral Communication

or

- HON 101 - Honors Public Speaking
- COM 102 - Introduction to Interpersonal Communication
- COM 216 - Survey of Communication Studies

Theory Requirement.....Credits: 6

- COM 400 - Human Communication Theory
- COM 409 - The Rhetorical Tradition

Methods .....Credits: 3

- COM 408 - Rhetorical Criticism

or



- COM 435 - Quantitative Research Methods

Communication Studies Upper Division requirements ... Credits: 18  
 Nine credits must be upper-division (300-400) level courses. May include HON seminars taught by COM faculty  
 Outside Area of Interest..... Credits: 15  
 Other Electives..... Credits: 29-33  
 Total Credits: ..... 120

## **Minor**

### **Communication Studies Minor**

Pre-Com

Before being admitted to a minor in Communication Studies, students must complete the following with a minimum grade point average (in these courses) of 2.00 and no course below C.

One of the following:

- COM 101 - Oral Communication

or

- HON 101 - Honors Public Speaking
- COM 102 - Introduction to Interpersonal Communication
- COM 216 - Survey of Communication Studies

Theory Requirement

One of the following:

- COM 400 - Human Communication Theory

or

- COM 409 - The Rhetorical Tradition

Elective Requirement

Nine credit hours of elective courses, six of which must be upper-division (300-400 level) courses. Elective courses may include 300-400 level HON courses taught by COM faculty.

## **Communication Studies**

### **COM 101 - Oral Communication**

Theory and performance work in extemporaneous speaking and related speaking experiences. Emphasis placed on developing skills necessary for effective public speaking. 3 credit(s)

### **COM 102 - Introduction to Interpersonal Communication**

Examination of theories of effective interpersonal communication with in-class exercises designed to provide practical application of theory. 3 credit(s)

### **COM 105 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Prerequisite(s): Consent of forensics administrator. Note(s): Does not fulfill requirements for a major in speech communication. Freshman standing required. 3 credit(s)

### **COM 106 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Freshman standing required. 3 credit(s)

### **COM 116 - Critical Reasoning in Daily Life**

Formerly Listed as COM 115.

Theory and practice of critical reasoning applied to a varied of everyday communicational forms, including arguments, narratives, advertisements, films, protests, performances, and public spaces. 3 credit(s)

### **COM 205 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Sophomore standing required. 3 credit(s)

### **COM 206 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Sophomore standing required. 3 credit(s)

### **COM 211 - Survey of Rhetorical Studies**

Survey of historical development of various rhetorical canons, concepts, and perspectives, beginning with ancient Greek and Roman discourse and concluding with contemporary rhetoric. 3 credit(s)

### **COM 216 - Survey of Communication Studies**

Analysis of the contexts, principles, and values of human communication grounded in communication theory. Focuses on developing competency in the areas of intrapersonal, interpersonal, small group, organizational, and public communication. 3 credit(s)

### **COM 217 - Argumentation and Debate**

Study of the principles of argument analysis, critical thinking, evaluation and construction; inductive and deductive reasoning; and forms of support and fallacies of argument and language. Study of the principles of organizing and writing argumentative essays. 3 credit(s)

### **COM 302 - Issues in Interpersonal Communication**

Examination of the variables involved in interpersonal communication relationships. Provides students with opportunities to examine their own communication behavior as it affects others. Prerequisite(s): COM 216. 3 credit(s)

### **COM 303 - Rhetoric and Ecology**

This course examines the relationship between rhetorics and environments, asking how our linguistic practices (speeches, policies, programs) intersect with our physical landscapes (neighborhoods, cities, regions). Students will gain an understanding of the ways human symbolic habits affect the planet, and vice versa, by critically exploring our "global ecological crisis." Prerequisite(s): COM 216. 3 credit(s)

### **COM 305 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Junior standing required. 3 credit(s)

### **COM 306 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Junior standing required. 3 credit(s)

### **COM 310 - Contemporary Rhetorical Theory**

Survey of major issues, themes, and problems in rhetorical theory over the past half century. Weekly topics range from Public Truths (morality, ideology) to Public Selves (identities, bodies, others) to Public Spaces (mediated, material, mundane) to Public Style (aesthetics, politics, change). Prerequisite(s): COM 216. 3 credit(s)

### **COM 312 - Nonverbal Communication**

Study of basic theory, concepts and analysis of nonverbal communication. Investigation of nonverbal cues (e.g., body language, space, eye contact, etc.) and their social functions. Prerequisite(s): COM 216. 3 credit(s)

### **COM 314 - Health Communication**

Examination of health communication theory, perspectives, and research in a variety of contexts. Prerequisite(s): COM 101, COM 102, and COM 216. 3 credit(s)

### **COM 315 - Small Group Communication**

Principles of small group communication and problem solving; theory and practice. Prerequisite(s): COM 216. 3 credit(s)

**COM 317 - Organizational Communication**

Examination of organizational communication from a general systems perspective. Emphasis on the flow of messages as they affect the structure and function of an organization. Prerequisite(s): COM 216. 3 credit(s)

**COM 330 - Selected Topics in Communication Studies**

Study of a specific topic related to communication studies. Prerequisite(s): COM 216. May be repeated to a maximum of six credits. 3 credit(s)

**COM 400 - Human Communication Theory**

Reviews, compares, and applies contemporary behavioral theories of communication. Focus is upon interpersonal, cognitive, and influence theories as they apply to communication processes. Prerequisite(s): COM 216. 3 credit(s)

**COM 401 - Rhetoric of Women's Rights**

(Same as WMST 400.) Examination of the rhetorical campaign for woman suffrage and women's rights from the early nineteenth century up to passage of the 19th amendment to the U.S. Constitution in 1920. Emphasis on identifying, understanding, and evaluating major rhetorical strategies in their historical context. Prerequisite(s): COM 216. Note(s): This course is crosslisted with COM 601. Credit at the 600-level requires additional work. 3 credit(s)

**COM 403 - Public Communication**

Examination of public communication in terms of form, context, people, messages, and delivery. Particular focus on the ethics of public communication. Prerequisite(s): COM 216. Note(s): This course is crosslisted with COM 603. Credit at the 600-level requires additional work. 3 credit(s)

**COM 404 - Principles of Persuasion**

Examination of the principles involved in influencing groups and individuals. Prerequisite(s): COM 216 and junior standing. Note(s): This course is crosslisted with COM 604. Credit at the 600-level requires additional work. 3 credit(s)

**COM 405 - Intercollegiate Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Prerequisite(s): COM 105, consent of forensics administrator, and junior or senior standing. Note(s): Does not fulfill requirements for a major in speech communication. Senior standing required. 3 credit(s)

**COM 406 - Intercollegiate Debate and Forensics**

Participation in intercollegiate debate and individual events as a member of the university debate squad, plus participation in related on-campus events. Note(s): Does not fulfill requirements for a major in speech communication. Senior standing required. 3 credit(s)

**COM 407 - Communication Between the Sexes**

(Same as WMST 407.) Introduction to gender research in communication, studying ways in which language, interpersonal communication, the media, and various social institutions influence conceptions of gender. Prerequisite(s): COM 216. Note(s): This course is crosslisted with COM 607. Credit at the 600-level requires additional work. 3 credit(s)

**COM 408 - Rhetorical Criticism**

Investigation and analysis of public discourse. Students introduced to a variety of critical methodologies used to analyze public messages. Prerequisite(s): COM 216. 3 credit(s)

**COM 409 - The Rhetorical Tradition**

Historical and critical evaluation of western rhetorical theory from the classical era to the contemporary period. Examines communication's humanistic traditions on such issues as civic discourse, public advocacy, social interaction, message analysis, and political culture. Prerequisite(s): COM 216. 3 credit(s)

**COM 410 - Advanced Topics in Relational Communication**

This course will examine contemporary topics and processes relevant to communication in personal relationships. To improve understanding of the communication process and its implications for the development, maintenance, and termination of close, personal relationships, current theory and research will be incorporated. The course will enhance critical thinking and analytical skills. Prerequisite(s): 102, COM 216. Note(s): This course is crosslisted with COM 610. Credit at the 600-level requires additional work. 3 credit(s)

**COM 412 - Intercultural Communication**

(Fulfills Multicultural Requirement), Understanding the relationship between communication and culture through the study of cultural variables (languages, traditions, rituals, roles/norms, values, etc.) and how this relationship impacts identity, behavior, expectations and knowledge. Prerequisite(s): COM 216. Note(s): Satisfies Multicultural Requirement. 3 credit(s)

**COM 413 - Argumentation**

Study of basic principles of argumentation, the preparation and presentation of argumentative speeches. Prerequisite(s): COM 216. Note(s): This course is crosslisted with COM 613. Credit at the 600-level requires additional work. 3 credit(s)

**COM 414 - Famous Speeches**

Study of the role of public address in American history. Emphasis on speeches which had a significant effect on American history. Prerequisite(s): COM 216. Note(s): This course is crosslisted with COM 614. Credit at the 600-level requires additional work. 3 credit(s)

**COM 415 - Communication in Marital and Family Relationships**

Introduces students to communication processes that occur in the context of marital and family relationships. We will examine definitions of the family, the roles of family members, various types of families that comprise modern society, and a number of current issues that affect families. Prerequisite(s): 216. Note(s): This course is crosslisted with COM 615. Credit at the 600-level requires additional work. 3 credit(s)

**COM 425 - Rhetoric and Public Memory**

This course explores how we use rhetoric to construct, circulate, and contest shared representations of the past. Students will gain an understanding of the foundational concepts in memory studies through class readings and discussions, and they will gain skills of critical, rhetorical analysis by applying these concepts in writing projects. Prerequisites COM 216 3 credit(s)

**COM 434 - Communication and Conflict Resolution**

Formerly Listed as COM 416

Examination of various types and sources of conflict in interpersonal relationships, the management and resolution of these conflicts through various decision-making models. Practical application of theory emphasized in various classroom exercises. Prerequisite(s): COM 216. 3 credit(s)

**COM 435 - Quantitative Research Methods**

Survey of empirical research methods in communication including laboratory, field, and survey methods and their applications. Prerequisite(s): COM 216. 3 credit(s)

**COM 441 - Rhetoric of Dissent**

Formerly Listed as COM 307

Description and analysis of public discourse by agitators and those opposed to agitation. Focus on significant movements for change in recent American history. Prerequisite(s): COM 101 and junior standing. Note(s): This course is crosslisted with COM 641. Credit at the 600-level requires additional work. credit(s)

**COM 464 - Leadership: A Communication Perspective**

Useful theories and practical experiences to make better leaders. Studies specific leaders, their philosophy of leadership, their ethics and effectiveness. Includes interviewing leaders both in the community and nationally. Prerequisite(s): COM 216. 3 credit(s)

### **COM 482 - Security Discourse**

In a globalized world the ways in which national security is discussed profoundly affects the public life of all individuals. Examines the language, arguments and practices related to security policy, including but not limited to topics such as the rhetorics of American foreign policy, war, terrorism and nuclear arms. Prerequisite(s): COM 216. Not(s): This course is crosslisted with COM 682. Credit at the 600-level requires additional work. 3 credit(s)

### **COM 484 - Political Communication**

Analysis of historical and contemporary political discourse. Addresses such topics as presidential rhetoric, electoral campaigns, ethics in political culture, institutional leadership, publics and public opinion, mediated political speech, legislative debates, political socialization. Prerequisite(s): COM 101 and junior standing. Note(s): This course is crosslisted with COM 684. Credit at the 600-level requires additional work. 3 credit(s)

### **COM 495 - Independent Study**

Supervised study and practical experience in subjects and projects to be determined in consultation with a Journalism and Media Studies faculty member. Students wishing to register for this course must consult with the faculty member prior to registration. Prerequisite(s): COM 216. May be repeated to a maximum of six credits. 1-3 credit(s)

### **COM 499 - Internship**

Supervised intern experience in commercial, non-profit, public, or government organizations. Prerequisite(s): Declared communication major, junior or senior standing, written consent of instructor and intern coordinator, appropriate previous course work, and 3.00 GPA. May be repeated to a maximum of six credits, three of which may be applied to the degree program. Note(s): S/F grading. 3 credit(s)

## **Department of Criminal Justice**

### ***Purpose and Focus***

The Bachelor of Arts degree in Criminal Justice is intended to provide students with a critical understanding of the nature and causes of crime and delinquency, the origins and meaning of law and social control (with emphasis on criminal law), the nature of the criminal justice system and the processing of cases through that system, and proposals for reducing crime and delinquency. The program is designed to broadly educate students, to prepare students for careers in various criminal justice settings, and to pursue graduate education.

### ***Degree Objectives***

Upon completing an undergraduate program in Criminal Justice, a student will:

1. Have demonstrated an awareness of the history and nature of the major components of the criminal justice system: police, courts, and corrections.
2. Be familiar with the basis of the law and the legal system as well as decision making in the criminal justice process, the social and political context of the legal system, important constitutional issues, and how criminal law differs from other forms of law.
3. Have demonstrated knowledge of the overall problem of crime in the United States in terms of being familiar with different types of crimes committed in society as well as possessing knowledge of the distribution of these crimes.
4. Understand issues related to crime prevention and the rehabilitation of offenders.
5. Be familiar with various methods of social science research, including survey research, field research, and experimental research, and demonstrate awareness of the linkage between theory and research.
6. Have basic knowledge of statistical procedures commonly used in the social sciences — in particular, those involved with descriptive research and hypothesis testing.
7. Be able to conduct a research project from beginning to end, including how to locate existing sources of relevant information, operationalize concepts of interest, collect data, interpret findings, and present information in a professional manner.
8. Be cognizant of various ethics concerns relevant to the study of criminal justice issues and the distribution of justice in society.
9. Be able to apply his or her knowledge in a variety of criminal justice settings, whether it be at the federal, state, or local level, or to pursue graduate education in criminal justice or a related field.

### ***Learning Outcomes***

Learning outcomes will be assessed by the administration of a Criminal Justice Department Exit Survey. The exit survey measures the extent to which required courses facilitated learning of each degree objective. In addition, students will complete a Criminal Justice Senior Assessment (CRJ 498) in their final semester.

### ***Accreditation***

Northwest Commission on Colleges and Universities

## ***Undergraduate Major***

Criminal Justice

### ***Admission to the Major***

Minimum GPA: 2.00

**Admission Policies:** Students will be assigned a Pre-Criminal Justice Major (PRE-CRJ) designation until they have completed a minimum of 30 college or university credits with a minimum of 2.00 GPA. The 30 credits must include: ENG 101, CRJ 104, and CRJ 270.

### ***Distribution Requirements***

Humanities and Fine Arts: (9 credits)

Two 3-credit courses from two different humanities areas and one three-credit introductory or appreciation course from a fine arts. (See notes.)

Life and Physical Sciences and Analytical Thinking: (9-10 credits)

Logic (PHIL 102) 3 credits and two courses from the life and physical sciences, at least one of which must be a laboratory course. (See notes.)

**Transfer Policies:** Only transfer credits in which the student has received a C or better will apply toward the 48-credit criminal justice requirements. Transfer students must complete CRJ 301 and 302 at UNLV.

Transfer students are required to consult with an academic advisor from the Greenspun College of Urban Affairs' Student Advising Center within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Department of Criminal Justice generally limits transfer credits for criminal justice courses taken at lower-division level to such courses as it offers at that level. Therefore, transferring students should not expect to substitute lower-division courses taken at another institution for upper-division criminal justice courses required at UNLV for degrees offered by the department.

Community college credits for approved courses are transferred as lower division only. Requirements for upper-division courses in the Department of Criminal Justice generally cannot be met with community college courses.

### ***Department Policies***

**Academic Policies:** A 2.00 GPA must be maintained in order to continue as a criminal justice major.

Pre-Criminal Justice majors may not take upper-division courses.

### ***Advisement***

Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Criminal Justice Department strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a premajor or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or [urbanaffairs@unlv.nevada.edu](mailto:urbanaffairs@unlv.nevada.edu) or may be visited in person on the 4th Floor of Greenspun Hall.

### ***Criminal Justice Major- Bachelor of Arts (BA)***

Please see the UNLV Greenspun Department of Criminal Justice web page at [criminaljustice.unlv.edu/undergrad/](http://criminaljustice.unlv.edu/undergrad/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center [urbanaffairs.unlv.edu/advising](http://urbanaffairs.unlv.edu/advising)

### ***Accreditation***

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

### ***Learning Outcomes***

1. Demonstrate an awareness of the history and nature of the major components of the criminal justice system: police, courts, and corrections.
2. Be familiar with the basis of the law and the legal system, as well as decision-making in the criminal justice process, the social and political context of the legal system, important constitutional issues, and how criminal law differs from other forms of law.
3. Demonstrate knowledge of the overall problem of crime in the United States, in terms of being familiar with different types of crimes committed in society, as well as possessing knowledge of the distribution of these crimes.
4. Understand issues related to crime prevention and the rehabilitation of offenders.
5. Be familiar with various methods of social science research including survey research, field research, experimental research, and evaluation research, and demonstrate awareness of the linkage between theory and research.
6. Have basic knowledge of statistical procedures commonly used in the social sciences, in particular, those involved with descriptive research and hypothesis testing.
7. Be able to conduct a research project from beginning to end, including how to locate existing sources of relevant information, operationalize concepts of interest, collect data, interpret findings, and present information in a professional manner.
8. Be cognizant of various ethical concerns relevant to the study of criminal justice issues, and the distribution of justice in society.

### ***University Graduation Requirements***

• Please see Graduation Policies for complete information  
Criminal Justice Degree Requirements.....Total: 120 Credits  
(see note 1 below)

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

Seminars

First-Year Seminar

- GSC 100 - First Year Experience Seminar



## Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \* required course for all majors in Greenspun College of Urban Affairs

## Constitution

- PUA 241 - Survey of Public Administration (Only satisfies the United States Constitution requirement)

## Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

## Social Sciences

- MFT 150 - Personal Growth
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

## Life and Physical Science

- ENV 101 - Introduction to Environmental Science
- ENV 220 - Introduction to Ecological Principles

## Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- MFT 225 - Multicultural Issues and Families

## International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

## In addition

Incoming freshmen are strongly encouraged to join a Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

General Education Requirements..... Subtotal 36-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4-6

Mathematics..... Credits: 3

MATH 120 or higher

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits
  - Two courses 3 credits each from two different humanities areas - 6 credits
  - One course in fine arts - 3 credits
- Social Science:
  - Automatically satisfied by Major requirements
  - Life and Physical Sciences and Analytical Thinking: 9 Credits
  - Two courses from life and physical sciences category; at least one must have a lab

- Analytical Thinking - 3 credits

- PHIL 102 - Critical Thinking and Reasoning

## Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BA in Criminal Justice - Subtotal: 39 credits

At least one 400-level course from each of the following three major content areas. (see notes 3 and 4 below)

## Nature of Crime

- CRJ 315 - Hate Crimes
- CRJ 325 - Serial Killers and Sexual Predators
- CRJ 400 - Theories of Crime
- CRJ 409 - Youth, Crime, and Society
- CRJ 410 - White Collar Crime
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- CRJ 442 - Victims of Sex Crimes
- CRJ 450 - Seminar in Criminal Justice
- CRJ 480 - Special Topics in Law and Social Control

## Criminal Justice Organizations and Administration

- CRJ 311 - Forensic Science
- CRJ 313 - Community Policing and Problem Solving
- CRJ 405 - History of Criminal Justice
- CRJ 412 - Leadership and Administration in Problem Solving
- CRJ 425 - The Correctional Institution
- CRJ 437 - Delinquency Prevention and Control
- CRJ 445 - Police Administration
- CRJ 460\* - Public Policy, Crime, and Criminal Justice
- CRJ 462 - Probation and Parole
- CRJ 490 - Crime Prevention

## Law and Society

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- CRJ 419 - Law and Society
- CRJ 435 - Jury Decision-Making
- CRJ 436 - Sociology of Law
- CRJ 438 - Social Inequality and Crime
- CRJ 441 - Social Science in Law
- CRJ 469 - Psychology and the Legal System
- CRJ 480 - Special Topics in Law and Social Control

Criminal Justice Major Requirement - Total Credits: 27

- CRJ 104 - Introduction to Administration of Justice
- CRJ 130 - Survey of Criminal Law
- CRJ 270 - Introduction to Criminology
- CRJ 301 - Research Methods in Criminal Justice
- CRJ 302 - Quantitative Applications in Criminal Justice

CRJ Electives..... Credits: 21

Nine credits must be upper division

Related Areas ..... Credits: 18

Students must consult the Greenspun College of Urban Affairs Student Advising Center for a list of acceptable courses that meet this requirement.

Other Electives..... Credits: 14-18  
(see note 2 and 4 below)

Total Credits: ..... 120

## Notes

1. A student may elect to graduate under any one of the following catalogs: the year of admission, the year of graduation, or the year of the latest change of major. The catalog used cannot be more than ten years old at the time of graduation. Requirements for graduation may vary depending on the catalog one uses. If you have questions, consult your advisor.
2. All criminal justice majors must take a total of at least 42 credits in upper-division (300-400 level) courses, including 27 credits in upper-division criminal justice courses, and at least six successfully completed credits of Other Electives.
3. Criminal justice majors are required to complete a total of 48 credits in criminal justice. (Of this total, 27 hours must be in upper-division courses.)
4. Only four physical education activity classes can be applied toward graduation.

## Minor

### Criminal Justice Minor

Courses Include ..... Total Credits: 21

- CRJ 104 - Introduction to Administration of Justice
- CRJ 130 - Survey of Criminal Law
- CRJ 270 - Introduction to Criminology
- CRJ 301 - Research Methods in Criminal Justice
- CRJ 432 - Criminal Justice Process

and six upper-division credits in criminal justice.

## Criminal Justice

### CRJ 104 - Introduction to Administration of Justice

American criminal justice system, its development, components, and processes; includes consideration of crime and criminal justice as a formal area of study. 3 credit(s)

### CRJ 106 - Introduction to Corrections

Analysis of the American correctional system emphasizing prison, probation, parole, and community-based corrections; theories of punishment/rehabilitation; the prison as a social system. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 130 - Survey of Criminal Law

Introduction to criminal law, its common law origins, basic concepts and application in legal proceedings. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 155 - The Juvenile Justice System

Overview of the basic philosophy and procedures of the juvenile justice system, types of delinquent offenders and factors associated with delinquency discussed. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 164 - Introduction to Criminal Investigation

Principles, methods, and procedures used in obtaining evidence used in criminal proceedings. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 211 - Police in America

History, organization, and role of the police in a democratic society. Current issues in policing discussed. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 225 - Criminal Evidence

Principles of evidence that pertain to the criminal justice process, nature and types of criminal evidence, and the rules governing the collection, presentation and admissibility of evidence in court, with special emphasis on the admissibility of evidence at trial. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 235 - Legal Method and Process

Federal and local judicial systems, analysis and synthesis of judicial opinions, the methods of interpretation of statutes, and the role of the courts in conflict resolution. Prerequisite(s): CRJ 104. 3 credit(s)

### CRJ 270 - Introduction to Criminology

Examination of the causes, types, and distribution of crime in American society. 3 credit(s)

### CRJ 301 - Research Methods in Criminal Justice

Introduction to social research methods and their application to criminal justice. Emphasis on relationships of theory to research, measurement, research design, hypothesis testing, sampling, and the implications of research for social policy. Prerequisite(s): CRJ 104 and CRJ 270. 3 credit(s)

### CRJ 302 - Quantitative Applications in Criminal Justice

Application of quantitative techniques to criminal justice data, with particular focus on problems of existing data sources. Methods of prediction, classification of offenders, forecasting crime trends and modeling decision making in the criminal justice system. Prerequisite(s): CRJ 301. 3 credit(s)

### CRJ 311 - Forensic Science

Survey of the principles and techniques of scientific and technical examination of physical evidence obtained during the investigative process. Prerequisite(s): CRJ 164. 3 credit(s)

### CRJ 313 - Community Policing and Problem Solving

Relationship between law, police, and community in context of policing reform towards community policing. Community policing elements including community-orientation, problem solving, and community crime prevention. Goals, strategies, and limits of formal and informal social control. Prerequisite(s): CRJ 104 and CRJ 301. 3 credit(s)

### CRJ 315 - Hate Crimes

Manifestations, causes and consequences of hate crimes are discussed. Nature of bias-motivated crimes, the perpetrators, victims and the role of hate groups. Community and criminal justice response are also discussed. Prerequisite(s): CRJ 104 and CRJ 270. 3 credit(s)

### CRJ 325 - Serial Killers and Sexual Predators

Examination of the extent, causes, and social characteristics of serial killers and sexual predators. Review of psychological and sociological theories of criminality to explain offender motivation, distribution of offenses across geographical areas, crime elements, and methods of selecting victims. Other topics include homicide investigation techniques, crime profiling, and computer mapping. Prerequisite(s): Three credits of social science. 3 credit(s)

### CRJ 333 - Criminal Justice in Film

Explores how various criminal justice issues are represented and misrepresented in popular culture through film. In addition, films are used to illustrate perspectives relevant to criminal justice. Prerequisite(s): CRJ 270, CRJ 301. 3 credit(s)

### CRJ 340 - Trial Advocacy: Mock Trial

This course will give students an overview of the trial process within the American legal tradition and provide students with the theoretical, technical, and practical skills used in trial advocacy. Students will learn about the Federal Rules of Evidence and trial structure including, voir dire, direct and cross-examinations of witnesses, and the admissibility of evidence. Prerequisites CRJ 104, CRJ 225, consent of instructor required. May be repeated to a maximum of 6 credits. 3 credit(s)

### CRJ 341 - Trial Advocacy: Mock Trial Competition

This course further develops qualifying trial advocacy students' and returning mock trial students' knowledge and presentation skills relevant to the advocacy process. Student teams will prepare for intercollegiate competition by deeper case analysis of American Mock Trial Association (AMTA). Prerequisites CRJ 340. May be repeated to a maximum of 2 credits. 1 credit(s)

**CRJ 400 - Theories of Crime**

Major theories of crime causation and societal reaction to crime. Particular attention to functionalism, conflict theory, definitional theory, the interactionist perspective, strain theory, and social and cultural support approaches. Prerequisite(s): CRJ 270 and CRJ 301. 3 credit(s)

**CRJ 404 - Crime Analysis**

Examines theories and statistical approaches to analyze data. These approaches include spatial analysis, behavioral profiling, arrest trajectories, population projections, risk assessment techniques, and other methods used in crime analysis. Prerequisite(s): CRJ 270, CRJ 301, CRJ 302. (can not be taken concurrently). 3 credit(s)

**CRJ 405 - History of Criminal Justice**

Historical development of criminal justice. Several eras reviewed, including the colonial period (up to 1815), nineteenth century, early twentieth century (up to 1940), and the modern era (1940-present). Prerequisite(s): CRJ 104 and CRJ 301. Note(s): This course is crosslisted with CRJ 605. Credit at the 600-level requires additional work. 3 credit(s)

**CRJ 407 - Law in Non-Western Societies**

(Same as ANTH 407.) General theory and practice of social control. Examines law and legal procedures in tribal, peasant, and industrial societies. Prerequisite(s): CRJ 104 or ANTH 101, or upper-division standing. Note(s): Satisfies International Requirement. 3 credit(s)

**CRJ 409 - Youth, Crime, and Society**

Review of the nature, distribution, and causes of youth crime. Special attention on the historical context of youth crime and the subject of youth gangs. Prerequisite(s): CRJ 270 and CRJ 301. 3 credit(s)

**CRJ 410 - White Collar Crime**

Examines types, causes, and measurement of white-collar crime, provides an overview of different cases and their costs, considers competing theories to explain white collar criminality, and explores the use of criminal sanctions to deter the misconduct of corporations. Prerequisite(s): CRJ 104, CRJ 301. 3 credit(s)

**CRJ 411\* - Comparative Criminal Justice Systems**

Analysis of the development, function, and problems of foreign criminal justice systems. Emphasis on comparisons to the American system. Prerequisite(s): CRJ 104. Note(s): Satisfies International Requirement. This course is crosslisted with CRJ 611. Credit at the 600-level requires additional work. 3 credit(s)

**CRJ 412 - Leadership and Administration in Problem Solving**

Formerly Listed as Personnel, collective bargaining, technology, total quality management, communication, implementation, training, futures, and other contemporary management issues as they bear on community policing and problem solving. Prerequisite(s): CRJ 104. 3 credit(s)

**CRJ 416 - Campus Crime**

This course explores the relationship between practice and research as reflected in the problems and challenges that confront campus policing and security. This course incorporates both a historical and a contemporary view of campus crime. Prerequisite(s): CRJ 104, CRJ 270. 3 credit(s)

**CRJ 419 - Law and Society**

This course examines major theoretical and methodological perspectives in sociology of law, lawmaking, law as social control, law in dispute resolution, and its effects on social change. With classic and topical readings, it challenges students to think critically about the nature and functions of law in contemporary society. Prerequisite(s): CRJ 104, CRJ 130, CRJ 270. 3 credit(s)

**CRJ 425 - The Correctional Institution**

Development, philosophy, and operational manifestations of various sentencing alternatives with particular emphasis on correctional institutions and subsequent classification and programming. Prerequisite(s): CRJ 104 and CRJ 301. 3 credit(s)

**CRJ 428 - Women and Crime**

(Same as WMST 428.) Women as offenders and as processed through the criminal justice system; women as victims and the response of the criminal justice system and the community. Prerequisite(s): CRJ 270 and CRJ 301. Note(s): Satisfies Multicultural Requirement. This course is crosslisted with CRJ 628. Credit at the 600-level requires additional work. 3 credit(s)

**CRJ 429 - Gender and Crime**

Debates about the similarities and differences between men and women as they apply to crime. Examines the social construction of masculinity and femininity and how this may be expressed through criminal behavior. Note(s): Satisfies Multicultural Requirement. Prerequisite(s): CRJ 106. 3 credit(s)

**CRJ 432 - Criminal Justice Process**

Procedural law concerning the processing of criminal matters from the investigatory stage through adjudication and disposition in state and federal courts. Emphasis on constitutional case law. Prerequisite(s): CRJ 130. 3 credit(s)

**CRJ 435 - Jury Decision-Making**

Cognitive and social influences that affect jury decision-making. Relationship between juror attitudes and behavior, information processing abilities of jurors, decision-making strategies, psycholinguistic limitations of jury instructions, conformity pressures, and other social-psychological factors affecting deliberations. Prerequisite(s): CRJ 130 and CRJ 301. 3 credit(s)

**CRJ 436 - Sociology of Law**

Study of the social nature of law, the relationship of law to social organization, law as a mechanism of social change, and the interrelationship between social factors and legal processes. Prerequisite(s): CRJ 130 and CRJ 301. Note(s): This course is crosslisted with CRJ 636. Credit at the 600-level requires additional work. 3 credit(s)

**CRJ 437 - Delinquency Prevention and Control**

Examination of the techniques of control, prevention, and treatment of delinquent behavior. Focus on linking techniques to theories of delinquency. Prerequisite(s): CRJ 409. 3 credit(s)

**CRJ 438 - Social Inequality and Crime**

Overview of the many dimensions of social inequality and how it relates to law, crime, and justice. Review of social stratification theories and poverty included. Prerequisite(s): CRJ 270 and CRJ 301. 3 credit(s)

**CRJ 441 - Social Science in Law**

Use of social science as a tool for a legal analysis. Examines the utility of empirical research in determining substantive legal issues such as community defenses, the use of offender profiles in criminal procedure, the death penalty and the size of juries. Prerequisite(s): CRJ 130 and CRJ 301. Note(s): This course is crosslisted with CRJ 641. Credit at the 600-level requires additional work. 3 credit(s)

**CRJ 442 - Victims of Sex Crimes**

Study of victimization due to sexual crimes or deviance. Impact of sexual abuse, rape, pornography and prostitution. Prerequisite(s): CRJ 270, CRJ 301. 3 credit(s)

**CRJ 445 - Police Administration**

Development and implementation of administrative policies in the management of resources in law enforcement agencies. Emphasis on personnel, planning, budgeting, and decision-making processes. Prerequisite(s): CRJ 104 and CRJ 301. 3 credit(s)

**CRJ 450 - Seminar in Criminal Justice**

Contemporary issues and problems in criminal justice viewed from an analytic perspective. Content differs each semester. Prerequisite(s): CRJ 270, CRJ 301. May be repeated to a maximum of six credits. 3 credit(s)

**CRJ 460 - Public Policy, Crime, and Criminal Justice**

Review of current public policy issues related to crime and criminal justice in the United States. Specific topic may change as new policy issues emerge. Prerequisite(s): CRJ 104 and CRJ 301. 3 credit(s)

**CRJ 462 - Probation and Parole**

Principles and practices of probation and parole. Emphasis on constructive methods of correctional processing within the broad scope of community-based corrections. Prerequisite(s): CRJ 425. 3 credit(s)

**CRJ 469 - Psychology and the Legal System**

(Same as PSY 469.) Psychological perspective for understanding legal issues. Topics include the development of conceptions of morality and justice, psychological theories of anti-social behavior, conflict resolution strategies, insanity and the law, judicial decision-making, the effects of stress on police officers, criminal psychological profiling, and psychological impact of victimization. Prerequisite(s): CRJ 130 and CRJ 301. 3 credit(s)

**CRJ 480 - Special Topics in Law and Social Control**

Focused analysis of specific forms of criminal behavior or particular theoretical approaches to crime causation. Content differs each semester. Prerequisite(s): CRJ 104 and CRJ 270. May be repeated to a maximum of six credits. 3 credit(s)

**CRJ 490 - Crime Prevention**

Study of recurring crime problems and approaches to reduce harmful criminal activities. Focused and systematic investigation of existing crime opportunity structures. Application of crime theories to develop police- and community-based strategies to prevent specific crime events Prerequisite(s): CRJ 301. 3 credit(s)

**CRJ 491 - Internship in Criminal Justice**

Reinforces academic knowledge with practical work experience in local, state, and federal criminal justice agencies. Prerequisite(s): Declared major in criminal justice, CRJ 104, CRJ 270, CRJ 301 (can be taken concurrently), junior or above standing, and consent of internship director. May be repeated to a maximum of six credits. Note(s): S/F grading only. 3 credit(s)

**CRJ 498 - Criminal Justice Senior Assessment**

Students must complete the Senior Assessment, CRJ 498, during the semester in which they plan to graduate. Designed to assess students' knowledge in criminal justice, evaluate department performance and identify areas that need to be strengthened in the department and the curriculum. Prerequisite(s): Graduating senior in semester of graduation. 0 credit(s)

**CRJ 499 - Independent Study**

Individual research under supervision of the instructor. Students undertake specific research projects in criminal justice on the basis of interest and preparation. Prerequisite(s): CRJ 104 and consent of instructor. May be repeated up to six credits. 1-6 credit(s)

## School of Environmental and Public Affairs

***Purpose and Focus***

The School of Environmental and Public Affairs (SEPA) conducts interdisciplinary research and offers undergraduate degree programs in environmental studies and public administration. It also oversees the solar and renewable energy programs that are supportive of UNLV's research agenda. SEPA prepares students for critical governance and problem solving challenges in the 21st century by helping them develop both the knowledge and skill sets required for analyzing, understanding and addressing critical public issues. This means that SEPA degrees prepare students for challenging and satisfying careers in the public, non-profit, and private sectors as managers and leaders. Among other things, students will gain a command of the policy process, acquire the skills to manage successfully environmental and natural resource policy, develop the knowledge necessary to navigate the dynamic and ever changing relationship between government and society, and become an effective leader and participant in all sectors of society. The school uses both biophysical and social sciences to examine social and environmental issues.

***Accreditation***

Northwest Commission on Colleges and Universities

***Undergraduate Majors***

Environmental Studies — Bachelor of Arts

Environmental Studies — Bachelor of Science

Public Administration — Bachelor of Science

***Minors***

Environmental Studies

Leadership and Civic Engagement

Solar and Renewable Energy

***Areas of Concentration*****Fire Safety Administration**

Sixty-seven credit hours leading to an AAS in Fire Science Management from an accredited community college are required for admission to the fire safety concentration. A grade point average of 2.00 is required for admission.

The fire safety administration concentration is designed on a two-plus-two basis: Students take the first two years of course work at an accredited community college and receive an AAS degree in Fire Science management. In addition, students may take another 15 hours of specialized professional fire administration course work through distance education from an approved college representative for the National Fire Academy. Students must then complete remaining degree requirements at UNLV to earn a B.S. in Public Administration with a concentration in Fire Safety Administration.

Courses in Fire Science Management from the AAS degree may apply only toward the fire safety administration concentration.



## ***Certification and Licensure Programs***

### **Environmental Manager**

Graduates of Environmental Studies, with the appropriate work experience, are eligible for certification by the state of Nevada Division of Environmental Protection as an Environmental Manager. See undergraduate coordinator for more information.

## ***Department Policies***

### **Internships (Environmental Studies Majors)**

Because environmental education demands more than the study of the abstract, the School helps students find internship opportunities with government, business, or industry. Students are strongly encouraged to gain critical environmental and business experience while in undergraduate school. See undergraduate coordinator for more information.

### **Capstone (Environmental Studies Majors)**

Each student in an Environmental Studies major will complete a research project on an environmental issue in ENV 498. The senior project provides students research experience and opportunities to refine skills as an environmental professional. We recommend all students explore alternative topics with faculty members during their sophomore and junior years.

## ***Transfer Policies***

Transfer students are required to consult with an academic advisor from the Greenspun College of Urban Affairs' Student Advising Center. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

### **Overall Degree Objectives (Environmental Studies)**

The Bachelor of Arts degree in Environmental Studies is intended to provide students with a broad theoretical background in the natural sciences and social sciences, a practical understanding of environmental issues facing our world, and the skills necessary to apply this knowledge to environmental management.

### ***Specific Degree Objectives (B.A.)***

Upon completing a Bachelor of Arts degree in Environmental Studies, a student should be able to:

1. Understand and apply fundamental theories from the natural and social sciences to environmental issues, and identify multiple dimensions of environmental issues.
2. Use formal decision support methods to analyze environmental issues and contribute to management decisions.
3. Identify technical and socioeconomic trade-offs associated with diverse approaches to environmental management.
4. Identify and understand practical issues currently faced by environmental decision makers.
5. Design and complete a professional report addressing a research question or problem related to the environment, through which the student will:
  - a. Identify and utilize the scientific method to conduct research on an environmental issue.
  - b. Demonstrate the ability to locate and access information on an environmental issue,

- c. Demonstrate technical skills required for basic fieldwork, laboratory experiments, and/or acquisition and analysis of other relevant data.
  - d. Demonstrate proficiency in technical writing and oral presentation.
6. Have the skills and qualifications to compete for a career as an environmental professional.

### ***Specific Degree Objectives (B.S.)***

The Bachelor of Science degree in Environmental Studies is intended to provide students with a broad theoretical background in the natural sciences and social sciences, a practical understanding of environmental issues facing our world, and quantitative skills necessary to apply this knowledge to environmental management. Upon completing a Bachelor of Science degree in Environmental Studies, a student should be able to:

1. Understand and apply fundamental theories from the natural sciences and social sciences to environmental issues and identify the multiple dimensions of environment issues.
2. Use formal decision support methods to analyze environmental issues and contribute to management decisions.
3. Identify technical and socioeconomic trade offs associated with diverse approaches to environmental management.
4. Identify and understand practical issues currently faced by environmental decision makers.
5. Design and complete a senior research project addressing a question or problem related to the environment and career goals, through which the student will:
  - a. Identify and utilize the scientific method to conduct research on an environmental issue.
  - b. Demonstrate the ability to locate and access information on an environmental issue.
  - c. Demonstrate technical skills required for basic fieldwork, laboratory experiments, and/or other data acquisition and analysis.
  - d. Demonstrate proficiency in technical writing and oral presentation.
6. Demonstrate proficiency in calculus (integration and differentiation) and physics.
7. Have the skills and qualifications to compete for a career as an environmental professional, including positions requiring quantitative analytical skills

## ***Meeting and Assessing Degree Objectives***

Students will meet these degree objectives through required course work and a senior thesis project. Achievement of these objectives will be assessed in three ways: successful completion of required course work, faculty evaluation of senior projects, and an annual survey of available environmental career opportunities.

## ***Advisement***

Upon acceptance as a major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the School of Environmental and Public Affairs strongly suggest that majors see an advisor at least once each year, preferably every semester. Upon acceptance as a premajor or major and at least once a year thereafter, students should contact the Greenspun College of Urban Affairs' Student Advising Center.

Curricular decisions must be made through consultation with an advisor. Decisions about the appropriate courses in related areas must be approved.

Transfer students are required to consult with an academic advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major.

The Advising Center can be reached at 702-895-1009 or [urbanaffairs@unlv.nevada.edu](mailto:urbanaffairs@unlv.nevada.edu) or may be visited in person on the 4th Floor of Greenspun Hall.

## Environmental Studies Major - Bachelor of Arts (BA)

Please see the UNLV School of Environmental and Public Affairs web page at [sepa.unlv.edu/](http://sepa.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Urban Affairs Undergraduate Advising at [urbanaffairs.unlv.edu/advising/programs/](http://urbanaffairs.unlv.edu/advising/programs/)

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

Upon completion of this program students will be able to:

1. Articulate the complexity and multiple dimensions of an environmental issue by identifying fundamental theories from the natural and social sciences.
2. Analyze environmental damages and/or policy impacts with an approach such as cost-benefit analysis from economics, life cycle approach from sociology, or system dynamics from engineering.
3. Identify technical and socioeconomic trade-offs associated with diverse approaches to environmental management and develop innovative, creative, adaptive solutions to environmental issues.
4. Identify and explain practical issues currently faced by environmental decision makers.
5. Design and complete a senior research project addressing a question or problem related to environment and career goals by
  - a. Identifying and utilizing a scientific method to conduct research on an environmental issue,
  - b. Demonstrating the ability to locate and access information on an environmental issue,
  - c. Demonstrating technical skills required for basic fieldwork, laboratory experiments, and/or acquisition and analysis of other relevant data, and
  - d. Demonstrating proficiency in technical writing and oral presentation.
6. Compete for alternative career options as environmental professional.

## University Graduation Requirements

- Please see Graduation Policies for complete information

Admission to the Major

Minimum GPA 2.00

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

## Seminars

### First-Year Seminar

- GSC 100 - First Year Experience Seminar

### Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \*required course for all majors in Greenspun College of Urban Affairs

### Constitution

- PUA 241 - Survey of Public Administration

### Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

### Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

### Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families

### International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

### In addition

Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

Environmental Studies Degree Requirements - Total: 120 Credits

(see notes 1-3 below)

General Education Requirements..... Subtotal: 37-38

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I

- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 3

- MATH 124 - College Algebra

Distribution Requirement: ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts Credits: 9
  - two 3-credit courses in humanities and one 3-credit course in fine arts
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking: 19 Credits
  - ENV 220 - Introduction to Ecological Principles
  - GEOL 101 - Exploring Planet Earth
  - PHIL 102 - Critical Thinking and Reasoning or HON 102 - Honors Critical Thinking

Multicultural and International..... Credits: 3  
 Multicultural, one 3 credit course required International requirement,  
 ENV 205 Environment and Development

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements -

BA in Environmental Studies ..... Subtotal: 46-47 Credits  
 Economics ..... Credits: 3

- ECON 102 - Principles of Microeconomics

or

- HON 202 - Honors Microeconomics

or

- ECON 190 - Global Economics

Statistics ..... Credits: 3

- ECON 261 - Principles of Statistics I

Environmental Studies Requirements..... Credits: 40-41

Environmental Studies Core Requirements

- ENV 101 - Introduction to Environmental Science
- ENV 360 - Environmental Assessment Methods
- ENV 377 - Environmental Economics
- ENV 498 - Seminar in Environmental and Public Affairs

and fulfill the following three content areas:

Earth Sciences:

- ENV 206 - Introduction to Climate Change

PLUS one of the following:

- GEOG 103 - Physical Geography of Earth's Environment
- GEOL 303 - Global Environmental Change

or

- GEOL 425 - Principles of Geochemistry

Public Policy, Environment and Society:

Take a total of three courses from three of the four following groups:

Group 1:

- NRES 411 - Environmental Law
- PSC 403A - Natural Resource Policy

Group 2:

- ENV /SOC 407 - Environment and Society
- HIST 441 - American Environmental History

Group 3:

- HIST 443 - Comparative Environmental History
- ENV 440 - Introduction to American Environmental Thought
- ENV 433 - Water Resource Institutions, Management and Policy
- ENV 470 - Energy Economics

Group 4:

- ENV 410 - Environmental Policy

Evidence Based Decision-Making & Applied Skills

One of the following:

- ENV 411 - Environmental Risk Management
- or
- ENV 460 - Environmental Modeling

One of the following:

- ENV 350 - Sustainable Urban Planning and Design
- or
- PUA 310 - Introduction to Policy Analysis

Two of the following:

- ENV 420 - Environmental Impact Analysis
- ENV 480 - Geographic Information Systems for Environmental Management
- ENV /AAL 430 - Land Use Management
- NRES 432 - Advanced Environmental Toxicology

Electives ..... Credits: 32-34

Total Credits: ..... 120

## Notes

1. Forty-two upper-division credits are necessary for graduation.
2. No more than four PEX credits will count towards graduation.
3. A minor is strongly recommended but not required.

## Environmental Studies Major - Bachelor of Science (BS)

Please see the UNLV Department of Environmental Studies web page at [sepa.unlv.edu/](http://sepa.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the College of Science Student Advising Center [sci.advising@unlv.edu](mailto:sci.advising@unlv.edu)

## Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## Learning Outcomes

The Bachelor of Science degree in Environmental Studies is intended to provide students with a broad theoretical background in the natural sciences and social sciences, a practical understanding of environmental issues facing our world, and quantitative skills necessary to apply this knowledge to environmental management. Upon completing a Bachelor of Science degree in Environmental Studies, a student will be able to:

1. Understand and apply fundamental theories from the natural sciences and social sciences to environmental issues and identify the multiple dimensions of environment issues.
2. Use models and other decision support methods to analyze environmental issues and contribute to management decisions.
3. Identify technical and socioeconomic trade-offs associated with diverse approaches to environmental management and develop innovative, creative, adaptive solutions to environmental issues.
4. Identify and understand practical issues currently faced by environmental decision makers.
5. Design and complete a senior research project addressing a question related to the environment and career goals, through which the student will:
  - Identify and utilize the scientific method to conduct research on an environmental issue,

- Demonstrate the ability to locate and access information on an environmental issue.
  - Demonstrate technical skills required for basic fieldwork, laboratory experiments, and/or other data acquisition and analysis. Demonstrate proficiency in technical writing and oral presentation.
  - Demonstrate proficiency in technical writing and oral presentation
6. Demonstrate proficiency in calculus (integration and differentiation) and physics.
7. Have the skills and qualifications to compete for alternative career options as an environmental professional, including positions requiring quantitative analytical skills.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Admission to the Major

Minimum GPA: 2.00

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

Seminars

First-Year Seminar

- GSC 100 - First Year Experience Seminar

Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \*required course for all majors in Greenspun College of Urban Affairs

Constitution

- PUA 241 - Survey of Public Administration

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

In addition

Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework

together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

Environmental Studies Degree Requirements..... Total: 120 Credits

General Education Requirements..... Subtotal: 41-42 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4

- PSC 101 - Introduction to American Politics

Mathematics..... Credits: 8

- MATH 181 - Calculus I

or

- HON 181 - Honors Calculus I

and

- MATH 182 - Calculus II

or

- HON 182 - Honors Calculus II

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 Credits

- COM 101 - Oral Communication or HON 101 - Honors Public Speaking
- One 3-credit courses in the Humanities and one 3-credit course in Fine Arts.

- Social Science: 9 Credits

- One economics course: choose from the following

- ECON 102 - Principles of Microeconomics

- ECON 190 - Global Economics

- HON 202 - Honors Microeconomics

- Plus two 3-credit social sciences course from different areas

- Life and Physical Sciences and Analytical Thinking:

- Automatically satisfied by Major requirements

Multicultural and International

Multicultural, one 3 credit course required

International ENV 205 Environment and Development - strongly recommended

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

Major Requirements -

BS in Environmental Studies Major Subtotal: 59-62 Credits

Sciences ..... Credits: 16

- BIOL 189 - Fundamentals of Life Science
- CHEM 121A - General Chemistry I
- CHEM 121L - General Chemistry Laboratory
- PHYS 151 - General Physics I
- PHYS 151L - General Physics I
- PHYS 152 - General Physics II
- PHYS 152L - General Physics II



Environmental Studies Requirements.....Credits: 43-46

Environmental Studies Core Courses:

- ENV 101 - Introduction to Environmental Science
- ENV 360 - Environmental Assessment Methods
- ENV 377 - Environmental Economics
- ENV 498 - Seminar in Environmental and Public Affairs

Earth Sciences

One of the following (three recommended):

- ENV 220 - Introduction to Ecological Principles
- ENV 206 - Introduction to Climate Change
- GEOG 103 - Physical Geography of Earth's Environment
- GEOL 101 - Exploring Planet Earth
- GEOL 303 - Global Environmental Change
- GEOL 425 - Principles of Geochemistry

Public Policy, Environment and Society

One of the following (three recommended):

- ENV 410 - Environmental Policy
- ENV /SOC 407 - Environment and Society
- ENV 433 - Water Resource Institutions, Management and Policy
- ENV 440 - Introduction to American Environmental Thought
- ENV 470 - Energy Economics
- HIST 441 - American Environmental History
- HIST 443 - Comparative Environmental History
- NRES 411 - Environmental Law

Evidence Based Decision-Making & Applied Skills

One of the following (four recommended):

- ENV 350 - Sustainable Urban Planning and Design
- ENV 411 - Environmental Risk Management
- ENV 420 - Environmental Impact Analysis
- ENV 430 - Land Use Management
- ENV 460 - Environmental Modeling
- ENV 480 - Geographic Information Systems for Environmental Management
- NRES 432 - Advanced Environmental Toxicology
- PUA 310 - Introduction to Policy Analysis

Electives.....Credits: 16-20

Total Credits: ..... 120

## **Public Administration - Fire Safety Administration Concentration - Bachelor of Science in Public Administration (BSPA)**

Please see the Public Administration web page at [sepa.unlv.edu/](http://sepa.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the Undergraduate Advising at [urbanaffairs.unlv.edu/advising/](http://urbanaffairs.unlv.edu/advising/).

## **Accreditation**

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

## **Learning Outcomes**

1. MPSO 1. List the legislation and identify relevant case law that shapes public personnel policies.
  - MPSO 2. Identify the different personnel systems that operate in public organizations.
  - MPSO 3. Explain the different theories of motivation.
  - MPSO 4. Differentiate elements of budgetary systems.
  - MPSO 5 list and explain the stages of the budgetary process.
2. Application of Quantitative and Qualitative Techniques to Policy,

Programs, and Decisions

- AQQT 1 Identify and explain the stages of the policy process.
- AQQT 2 List decision-making techniques used in the public sector.
- AQQT 3 Communicate both orally and written material in a clear, concise, and logical manner to permit the information to be used for decision-making.
- AQQT 4 Input data into standard statistical and informational computer programs.
- AQQT 5 Collect information from a variety of sources and synthesize the material to aid in making management, program, and policy decisions.

3. Understanding of the Public Policy and Organizational Environment of Public Service

- PPOE 1 Identify and explain the components of our constitutional system of government including federalism and intergovernmental relations.
- PPOE 2 Identify and explain the role of leadership in organizations.
- PPOE 3 Identify the most current organizational frameworks.
- PPOE 4 Identify the best practices in management.
- PPOE 5 Identify the elements of the historically important theories of public administration.

4. Ethics

- E 1 Explain the ethical foundation and perspectives underlying public administration and apply them at both the organizational and personal level.

5. Fire Safety

- FS 1 Explain factors that shape fire research and fire preservation and tools used for fire prevention.
- FS 2 Identify and apply effective theories and practices of fire administration.

## **University Graduation Requirements**

Please see Graduation Policies for complete information

Public Administration -

Fire Safety Administration .....Total: 120 Credits  
Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 436 - Sociology of Law
- CRJ 438 - Social Inequality and Crime
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Life and Physical Science

- ENV 101 - Introduction to Environmental Science

Multicultural

- COM 412 - Intercultural Communication

- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families

#### International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

#### In addition

Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

General Education Requirements ..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II
- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

- MATH 120 - Fundamentals of College Mathematics
- MATH 120 - Fundamentals of College Mathematics

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities
  - One 3-credit course in fine arts:
- ART 135 - Photography I (see note 2 below)
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must have a lab.

#### Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>

Major Requirements - BSPA in Public Administration -

Fire Safety Administration ..... Subtotal: 84 Credits

Public Administration Core Requirements ..... Credits: 24

- PUA 241 - Survey of Public Administration
- PUA 405 - Public Organizations
- PUA 410 - Research Methods for Public Administration
- PUA 420 - Public Personnel Administration
- PUA 421 - Computer Technology in Government

- PUA 422 - Leadership of Public Bureaucracies
- PUA 423 - Ethics in Public Administration
- PSY 350 - Industrial and Organizational Psychology

Public Administration Electives ..... Credits: 12

Select 4 Courses from the Following:

- PUA 250 - Local Government Administration
- PUA 403 - Risk Management in the Public and Nonprofit Sectors
- PUA 404 - Risk Assessment and Risk Management
- PUA 424 - Fraud, Waste, and Abuse in Public and Nonprofit Organizations
- PUA 425 - Public Budgeting and Finance
- PUA 440 - Intergovernmental Relations
- PUA 450 - Policy for Public Administrators

Fire Science Management ..... Credits: 33  
(see note 3)

Advanced Fire Safety Courses ..... Credits: 15  
(see note 4)

Electives ..... Credits: 4

Total Credits: ..... 120

#### Notes

1. Specific restrictions on courses fulfilling this requirement exist. See the General Education Core Requirement section of this catalog for additional information.
2. Students who have completed an AAS degree in Fire Science Management from CSN may transfer credits from ENG 101 and ART 135, in satisfaction of the requirements that they take ENG 101 and ART 135.
3. Students who have completed an AAS degree in Fire Science Management from CSN (or a comparable degree from another institution), may transfer into UNLV 33 of the 42 Fire Science course hours: FS 101B, 110B, 111B, 121B 125B, 210B, 235B, 244B, 245B, 260B, 261B, 262B, 263B.
4. These courses are offered through Cogswell College Distance Education Program (associated with National Fire Academy) or as special topics courses approved and sponsored by the Department of Public Administration. Courses currently approved include: FS 342, FS 344 FS 355, FS 357, FS 486.

#### Public Administration Major - Bachelor of Science (BS)

Please see the Public Administration web page at [sepa.unlv.edu/](http://sepa.unlv.edu/) for information about department programs, faculty and facilities.

Please see advising information at the Undergraduate Advising at [urbanaffairs.unlv.edu/advising/](http://urbanaffairs.unlv.edu/advising/).

#### Accreditation

Institution - Northwest Commission on Colleges and Universities  
[www.nwccu.org](http://www.nwccu.org)

#### Learning Outcomes

- 1) Have an overview of the management of public service organizations, including:
  - a. List the legislation and identify relevant case law that shapes public personnel policies.
  - b. Identify the different personnel systems that operate in public organizations.
  - c. Explain the different theories of motivation.
  - d. Differentiate elements of budgetary systems.

- e. List and explain the stages of the budgetary process. 1
- 2) Be able to apply quantitative and qualitative techniques to policy, programs, and decisions, including:
  - a. Identify and explain the stages of the policy process.
  - b. List decision-making techniques used in the public sector.
  - c. Communicate both orally and written material in a clear, concise, and logical manner to permit the information to be used for decision-making.
  - d. Input data into standard statistical and informational computer programs.
  - e. Collect information from a variety of sources and synthesize the material to aid in making management, program, and policy decisions. 2
- 3) Understand the public policy and organizational environment of public service, including:
  - a. Identify and explain the components of our constitutional system of government including federalism and intergovernmental relations.
  - b. Identify and explain the role of leadership in organizations.
  - c. Identify the most current organizational frameworks.
  - d. Identify the best practices in management.
  - e. Identify the elements of the historically important theories of public administration. 3
- 4) Explain the ethical foundation and perspectives underlying public administration and apply them at both the organizational and personal level. 4

1 - Corresponds to Student Learning Outcomes MPSO 1-5 in five year plan for 2004-2005 to 2009-2010.

2 - Corresponds to Student Learning Outcomes AQQT 1-5 in five year plan for 2004-2005 to 2009-2010.

3 - Corresponds to Student Learning Outcomes PPOE 1-5 in five year plan for 2004-2005 to 2009-2010.

4 - Corresponds to Student Learning Outcome E 1 in five year plan for 2004-2005 to 2009-2010.

### University Graduation Requirements

- Please see Graduation Policies for complete information

Admission to the Major

Minimum GPA: 2.00

12 credits of University level work.

Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

Seminars

First-Year Seminar

- GSC 100 - First Year Experience Seminar

Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \*required course for all majors in Greenspun College of Urban Affairs

Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology

- CRJ 435 - Jury Decision-Making
- CRJ 436 - Sociology of Law
- CRJ 438 - Social Inequality and Crime
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

Life and Physical Science

- ENV 101 - Introduction to Environmental Science

Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families

International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

In addition

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Public Administration Degree Requirements ..... Total: 120 Credits

General Education Requirements ..... Subtotal: 36-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 18-19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two 3-credit courses in the humanities and one 3-credit course in fine arts.
- Social Science:
  - Automatically satisfied by Major requirement
- Life and Physical Sciences and Analytical Thinking - 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses from life and physical sciences category; at least one must be a lab.

Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: <http://facultysenate.unlv.edu/students>.

## Major Degree Requirement -

BS in Public Administration .....Subtotal: 57 Credits

Public Administration Core Requirements .....Total Credits: 21

- PUA 241 - Survey of Public Administration
- PUA 405 - Public Organizations
- PUA 410 - Research Methods for Public Administration
- PUA 420 - Public Personnel Administration
- PUA 421 - Computer Technology in Government
- PUA 422 - Leadership of Public Bureaucracies
- PUA 423 - Ethics in Public Administration
- PSY 350 - Industrial and Organizational Psychology

Evidence - Based Decision Making & Applied Skills..... Credits: 6

- PUA 310 - Introduction to Policy Analysis
- PUA 410 - Research Methods for Public Administration

Public Administration Core Electives ..... Credits: 12

- PUA 250 - Local Government Administration
- PUA 403 - Risk Management in the Public and Nonprofit Sectors
- PUA 404 - Risk Assessment and Risk Management
- PUA 424 - Fraud, Waste, and Abuse in Public and Nonprofit Organizations

Organizations

- PUA 425 - Public Budgeting and Finance
- PUA 440 - Intergovernmental Relations
- PUA 450 - Policy for Public Administrators

Guided Electives..... Credits: 18

Eighteen credit hours must be taken from any of:

- AAP 100 - Introduction to Urban Planning
- AAP 366 - History of Cities I

or

- AAP 367 - History of Cities II
- ACC 201 - Financial Accounting
- COM 102 - Introduction to Interpersonal Communication
- COM 217 - Argumentation and Debate
- COM 315 - Small Group Communication
- COM 317 - Organizational Communication
- COM 434 - Communication and Conflict Resolution
- CED 300 - Introduction to Human Services Counseling
- CRJ 104 - Introduction to Administration of Justice
- CRJ 432 - Criminal Justice Process
- CRJ 445 - Police Administration
- CRJ 460\* - Public Policy, Crime, and Criminal Justice
- ECON 102 - Principles of Microeconomics
- ECON 307 - Environmental Economics
- ECON 320 - Health Economics
- ECON 354 - Government and Business
- ECON 365 - Labor Economics
- ENV 202 - Environmental Regulations
- ENV 205 - Environment and Development
- ENV 377 - Environmental Economics
- ENV 407 - Environment and Society
- ENV 410 - Environmental Policy
- ENV 420 - Environmental Impact Analysis
- ENV 430 - Land Use Management
- ENV 460 - Environmental Modeling
- ENV 480 - Geographic Information Systems for Environmental Management
- PBH 320 - Public and Community Health
- MGT 465 - Collective Bargaining and Public Policy
- PSC 320 - Policy Analysis
- PSC 321 - Analyzing Policy Issues
- PSC 401A - Urban Politics

- PSC 401D - State Politics
- PSC 403A - Natural Resource Policy
- PSC 403B - Energy Politics and Policy
- SOC 403 - Techniques of Social Research
- SOC 404 - Statistical Methods in the Social Sciences
- SOC 408 - Qualitative Research
- SOC 446 - Bureaucracy in Society (see note 2 below)

Electives..... Credits: 23-27

Total Credits: ..... 120

## Notes

1. Specific restrictions on courses fulfilling this requirement exist. See the General Education Core Requirement section of this catalog for additional information.

## Minor

### Environmental Studies Minor

Courses Include .....Total Credits: 21

ENV 101 - Introduction to Environmental Science

and a sequence of six other ENV courses. Twelve credits must be at the upper-division level.

### Leadership and Civic Engagement Minor

The minor in leadership and civic engagement is available to undergraduate students who are interested in developing their skills as a leader in their field of study or as a student leader within the university community. These courses provide additional educational opportunities, which supplement degree programs to support the growth of civically engaged leaders needed in the global community.

Courses include ..... 18-24 credits

- PUA 230 - Introduction to Leadership Experience
- PUA 231 - Leadership Experience
- PUA 381 - Global Leadership
- PUA 382 - Leadership as Social Change
- PUA 385 - Conflict and the Role of Leadership
- PUA 386 - Leadership, Facilitation, and Training
- PUA 387 - Leadership Capstone Experience
- PUA 388 - Leadership Internship

## School of Environmental and Public Affairs

### ENV 101 - Introduction to Environmental Science

Introduction to the relationship of humans and the environment. Selected aspects of current thinking and research concerning the impact of industrialization and urbanization on environmental quality, including the population explosion; the potential decline of the affluent society by the depletion of natural resources; the pollution of air, land surface and water; the public agencies and policies designated to solve environmental problems. 3 credit(s)

### ENV 105 - Experiential Learning

Participation in a project or supervised study of an environmental topic outside the traditional classroom situation. May be repeated to a maximum of six credits. Note(s): Must be prearranged with faculty approval. 1-3 credit(s)

### ENV 202 - Environmental Regulations

Study of the federal and state environmental laws covering EPA, DOT, and OSHA regulations which apply to hazardous materials, substances, and hazardous wastes. The Clean Air and Clean Water Acts also included. Prerequisite(s): CHEM 220. 3 credit(s)



**ENV 205 - Environment and Development**

Many environmental issues faced by developing countries differ fundamentally from those familiar to Americans. Discovers interactions between development, population growth and the environments and evaluates the value of possible interventions. Note(s): Satisfies International Requirement. 3 credit(s)

**ENV 206 - Introduction to Climate Change**

Explores the range of issues associated with the current climate change debate. Students will learn the current state of climate science, understand the data and models that lead the scientific community to conclude that climate change is happening, that humans are a significant cause, and that climate change is expected to continue over the next century. Examine potential solutions to climate change. 3 credit(s)

**ENV 220 - Introduction to Ecological Principles**

Introduction for environmental studies students to the major ecological principles at work in the environment. Focuses not only on these principles, but also on understanding the processes that underlie them. Lab/Lecture/Studio Hours: Three hour lecture. 3 credit(s)

**ENV 350 - Sustainable Urban Planning and Design**

Examines methods for organizing the structure and function of cities, including land use, buildings, and infrastructure, in order to bring them into greater harmony with natural surroundings. Also focuses on understanding how to reduce the ecological impacts of the urban footprint and to better understand urban connections to natural resources. Prerequisite(s): ENV 101, ENV 206. 3 credit(s)

**ENV 360 - Environmental Assessment Methods**

Uses the scientific method to examine aspects of environmental and social systems important for environmental research and management. Introduces a range of data collection and analysis methods and gives students practical experience in applying assessment methods to key landscape, physical, chemical, biological and sociological parameters through class and field exercises. Prerequisite(s): ENV 101, ENV 220, MATH 124. 4 credit(s)

**ENV 377 - Environmental Economics**

(Same as ECON 307.) Economics of environmental quality and resource development. Consideration of public policies to account for environmental pollution to air, water, and land resources. Prerequisite(s): Junior standing and ECON 102 or ECON 190. 3 credit(s)

**ENV 407 - Environment and Society**

(Same as SOC 407.) Focuses on the conflict between private rights and the public interest and the extent to which this conflict affects society in the environmental arena. Prerequisite(s): SOC 101 or SOC 102. 3 credit(s)

**ENV 410 - Environmental Policy**

Fundamental principles of policy and politics that shape environmental protection strategies in this nation and abroad. Prerequisite(s): ENV 101. 3 credit(s)

**ENV 411 - Environmental Risk Management**

(Same as PUA 404.) General approaches to solving environmental risk problems. Students develop a "toolbox" of basic risk analysis and management methods, as well as the appropriate role of these methods in effective public and private decision making. Introduces risk analysis methods and explores policy implications of those methods. Prerequisite(s): ENV 360. 3 credit(s)

**ENV 420 - Environmental Impact Analysis**

Detailed language and intent of the National Environmental Policy Act. Case studies used as the vehicle for presenting detailed aspects of Environmental Assessments and Environmental Impact Statements. Prerequisite(s): ENV 410. Note(s): This course is crosslisted with ENV 611. Credit at the 600-level requires additional work. 3 credit(s)

**ENV 430 - Land Use Management**

(Same as AAL 430.) Planning, implementation, and evaluation of land use covering both non-urban and urban situations. Emphasis on sustainable use with a focus on conservation of valuable terrestrial resources as well as energy. Constraints related to individual property rights and distribution of wealth treated. Prerequisite(s): ENV 101. 3 credit(s)

**ENV 433 - Water Resource Institutions, Management and Policy**

Formerly Listed as Overview of water law, policy, management and institutions. Explore how historical, political, economic, social, cultural, scientific, and technological factors have shaped laws and institutions by which people value, allocate, use, and preserve water resources. Main focus is on Western U.S., but covers water issues from a national and global perspective. Prerequisite(s): ENV 101 or permission of the instructor. 3 credit(s)

**ENV 440 - Introduction to American Environmental Thought**

Required readings include selected seminal works from environmental studies literature, primary documents from American history, and essays by prominent historians and environmental critics. We will discuss pertinent questions concerning the human relationship to the natural world, how that relationship has evolved over time, and what the implications are for the present and future of American society and culture. Prerequisite(s): ENV 101. Note(s): Satisfies the environmental thought requirement for Environmental Studies majors. 3 credit(s)

**ENV 460 - Environmental Modeling**

Introduction to dynamic modeling of environmental systems including use of modeling to support management and policy making. Develops systems thinking skills and ability to build system dynamics models. Emphasizes modeling as a framework for environmental analysis and problem solving. Prerequisite(s): ENV 360. Note(s): This course is crosslisted with ENV 660. Credit at the 600-level requires additional work. 4 credit(s)

**ENV 470 - Energy Economics**

Covers multiple theoretical and empirical topics involving the economics of energy, and issues of energy demand, supply, prices, environmental consequences of consumption and production, and policies affecting energy decision-making and effects. Examines current and historical market trends, conditions, and performance, with emphasis on project cost, revenue forecasting, and reserve analysis. Prerequisite(s): ECON 102 or equivalent course. 3 credit(s)

**ENV 480 - Geographic Information Systems for Environmental Management**

Introduction to the use of GIS for environmental problem analysis and management. Covers fundamental concepts as well as technical skills including: the nature of geographic data, data collection and conversion, geo-coding, database development and management, spatial analysis, use of spatial information in management. Prerequisite(s): ENV 360 or equivalent. Note(s): This course is crosslisted with ENV 680. Credit at the 600-level requires additional work. 4 credit(s)

**ENV 490 - Seminar in Environmental Studies**

Prepares majors for careers as environmental professionals. Includes presentations by specialists in the field of Environmental Studies, as well as instruction on job search strategies and resume and interview preparation. Encourages students to seek career opportunities by attending lectures, participating in community environmental activities, and writing reports on experiences. Prerequisite(s): Upper-division standing. May be repeated to a maximum of four credits. 2 credit(s)

**ENV 492 - Undergraduate Research**

Collaboration with a faculty member on a specific environmental problem. Prerequisite(s): Two years of environmental studies and consent of instructor. May be repeated to a maximum of six credits. 1-3 credit(s)

**ENV 493 - Independent Study**

Supervised advanced study on an environmental topic. Offered on an individual basis and with approval of instructor. Prerequisite(s): Upper-division Environmental Studies major. May be repeated to a maximum of six credits. 1-3 credit(s)

**ENV 495 - Internship in Environmental Studies**

Practical approaches to environmental problem-solving by working under faculty direction as interns with local, state, and federal agencies concerned with the environment or with private research and business organizations. Periodic and final reports part of the internship. Prerequisite(s): Environmental Studies major, upper-division status, 2.50 GPA. May be repeated to a maximum of six credits. Note(s): S/F grading only. 1-6 credit(s)

**ENV 496 - Special Topics in Environmental Studies**

Analysis of selected issues of timely significance. Topics specified in the class schedule. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 3 credit(s)

**ENV 498 - Seminar in Environmental and Public Affairs**

Senior capstone course integrates and deepens student understanding of key assumptions, issues and problems in this area. Familiarizes students with methodologies for designing, conducting and presenting effective research, while exposing students to seminal readings & important studies. Also explores differing approaches to the resolution and management of major public issues. Prerequisite(s): Senior standing and admission to the ENV major. 3 credit(s)

**ENV 499A - Senior Thesis Environmental Studies**

Each class member develops a thesis topic, outline, basic bibliography, secures an advisor, and completes a prospectus. Prerequisite(s): Senior standing and consent of instructor. 3 credit(s)

**ENV 499B - Senior Thesis Environmental Studies**

Using the material developed in ENV 499A, each class member writes and presents a thesis. Prerequisite(s): ENV 499A. 3 credit(s)

**NRES 411 - Environmental Law**

Historical discussion of the development of environmental legislation, with particular attention to major public laws. Examines the interpretation, regulation, and developing court interpretation of selected public laws. Major emphasis on the environment as a system and understanding the broad concepts involved in protecting it using the laws enacted by Congress. Prerequisite(s): ENV 101 or PSC 101. 3 credit(s)

**NRES 423 - Soil Science**

Understanding and application of principles of soil science. Emphasis on the relationship of soil characteristics to land use, plant growth, and ecosystem health/stability. Topics include soil genesis, soil chemistry, soil water relations, field soil characterization, soil sampling, standard physical and chemical lab methods of soil analysis, and soil mapping. Prerequisite(s): ENV 101. 4 credit(s)

**NRES 432 - Advanced Environmental Toxicology**

Describes how selected classes of environmental contaminants interact with cellular processes, biochemical reactions, organs and tissues. Influences on individuals, populations and ecosystems. Describes the relationship(s) between toxicants and the multiple ways they interact with the endocrine system. Prerequisite(s): ENV 201 or CHEM 201. 3 credit(s)

**PUA 205 - Diversity in Urban America**

This course will examine the role of race and ethnicity in urban issues. Urban issues to be covered include: citizenship and voting, immigration, communication networks, education, health and wellness, housing, crime, poverty, family types, and homelessness. 3 credit(s)

**PUA 230 - Introduction to Leadership Experience**

Formerly Listed as EDU 230

Encourage analyzing of responsibilities and commitment in the context of leadership. An understanding leadership as a process, rather than a position will be developed and ways this varies from traditional leadership theories. Theories, concepts, and skills will be explored and will be asked to apply this knowledge to their own leadership philosophy. Note(s): Satisfies Multicultural Requirement 3 credit(s)

**PUA 231 - Leadership Experience**

Formerly Listed as EDU 231.

A survey of fundamental leadership theory and skills. Students will apply knowledge gained from the course directly to their roles as leaders on and off campus. Prerequisite(s): PUA 230. 3 credit(s)

**PUA 241 - Survey of Public Administration**

Survey of the role of executive agencies in governmental processes. Focuses on bureaucratic procedures for planning, budgeting, utilizing personnel, communicating, and decision making. Note(s): (Satisfies U.S. Constitution requirement.) 3 credit(s)

**PUA 250 - Local Government Administration**

American local governments have changed tremendously over the years. Constantly evolving and always colorful, they provide an opportune research setting. Provides an in-depth study of the political processes and administrative procedures used in local governments. Comparative analysis of relevant actors and strategies across communities is incorporated. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 381 - Global Leadership**

Formerly Listed as EDUC 381.

Learning how to leading in a dynamic 21st century world means thinking broadly about diversity for leadership positions in a global world. Focuses on improving personal leadership skills and emphasizing the importance of leading consistently with the highest ethical principles and values. Prerequisite(s): PUA 230 and PUA 231. 3 credit(s)

**PUA 382 - Leadership as Social Change**

Formerly Listed as EDUC 382.

Leading in a dynamic 21st century world requires that leaders think broadly about issues related to social justice. Focuses on improving personal leadership skills and emphasize the importance of leading with the highest ethical principles and values. Prerequisite(s): PUA 230 and PUA 231. 3 credit(s)

**PUA 385 - Conflict and the Role of Leadership**

Formerly Listed as EDUC 385.

Introduction of concepts, theory and practice of the role of leader in conflict resolution, decreasing community conflict and understanding interpersonal conflict and the applications of these to historical and current leadership situations, specifically for the development of skills in mediation and a personal style of conflict resolution. Prerequisite(s): PUA 230 and PUA 231. 3 credit(s)

**PUA 386 - Leadership, Facilitation, and Training**

Formerly Listed as EDUC 386.

Develop core competencies in designing and facilitating structured group workshops. Students will explore and experience all aspects of a group workshop including conception of an idea through facilitation and evaluation. Multiple learning methods will be used including readings and lectures, however a large emphasis will be placed on experimental learning. Prerequisite(s): PUA 230 and PUA 231. 3 credit(s)

**PUA 387 - Leadership Capstone Experience**

Formerly Listed as EDUC 387.

Explore and develop concepts of effective leadership as they relate to personal development. An experiential learning climate which includes a strong base knowledge of leadership theory including the role of values, ethics, communication, group dynamics, and diversity. Prerequisite(s): PUA 230 and PUA 231. 3 credit(s)

**PUA 388 - Leadership Internship**

Formerly Listed as EDUC 388.

Students enrolled in this internship course will further develop their knowledge and skills in leadership through practical experiences. It requires students to complete 100 (3 credits) clock hours of work onsite, either at UNLV or at an approved organization or community agency. Prerequisite(s): PUA 230 and PUA 231. Internship experience may be repeated twice for no more than six credits, however only 3 credits will apply to minor. Note(s): Students must apply prior to enrolling. 3-6 credit(s)

**PUA 403 - Risk Management in the Public and Nonprofit Sectors**

The purpose of this course is to look at risk from a variety of perspectives. Students learn to analyze and manage risk, as well as how to integrate risk assessment methods into public and nonprofit management. The course also explores policy and management implications of failing to manage risk. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 404 - Risk Assessment and Risk Management**

General approaches to solving environmental risk problems. Students develop a "toolbox" of basic risk analysis and management methods, as well as the appropriate role of these methods in effective public and private decision making. Introduces risk analysis methods and explores policy implications of those methods. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 405 - Public Organizations**

Public sector organization and performance. Attention given to internal characteristics and dynamics and external public sector relations. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 410 - Research Methods for Public Administration**

Emphasizes research tools for monitoring public sector administrative programs and program impacts. Gives attention to the special applications of data collection and analysis when data is collected from public sector agencies and governmental sources or consists of program measurements in order to monitor agency activity and program impacts. Prerequisite(s): Junior standing. 3 credit(s)

**PUA 420 - Public Personnel Administration**

Examines the personnel function in government. Unique aspects of labor practices and labor relations in the public sector treated, along with state and federal regulations guiding the public employer. Impact of the political context upon civil service and merit system considered. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 421 - Computer Technology in Government**

Introduces computer-based information systems from the perspective of public sector applications in a non-technical manner. Presents the history of computing and studies the advent of applications for the public sector including financial reporting, public safety, knowledge-support systems, and geographic information systems. Web-based applications explored. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 422 - Leadership of Public Bureaucracies**

Provides an overview of different perspectives and theories of leadership and discusses a new model of leadership for the public sector. Focus is given to leadership functions in response to the current challenges facing bureaucracies. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 423 - Ethics in Public Administration**

Exploration of ethical issues facing public administrators. Examines philosophical foundations of ethics as well as contemporary case studies of ethical problems such as gift giving, nepotism, privacy and secrecy, whistleblowing activity and protections. Attention is given to codes of ethics and training for administrators. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 424 - Fraud, Waste, and Abuse in Public and Nonprofit Organizations**

Provides an introduction to the basic concepts of fraud, waste and abuse in public and nonprofit organizations. The course examines ways to recognize, address, and examine fraudulent activities at different organizational levels and the impact of the Sarbanes-Oxley Act on public and nonprofit organizations. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 425 - Public Budgeting and Finance**

Study of the budgeting process and politics of budgeting in executive agencies, with special attention to the policy-making phase of the budget cycle. Agency interactions with the legislative branch and the chief executive also considered. Analysis of alternative revenue sources and the role of government in the economy. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 440 - Intergovernmental Relations**

Provides an introduction to the basic concepts and issues of intergovernmental relations and American federalism. Emphasis is on the relationships among national, state, and local governments; the grant-in-aid system; and revenue sharing among different units of government. Both vertical and horizontal dimensions of intergovernmental relations will be considered. Additionally, the course explores the dynamics of American intergovernmental relations with emphasis on recent literature and contemporary policy issues, such as emergency response, education policy, social services, and economic development. Prerequisite(s): PUA 241. 3 credit(s)

**PUA 450 - Policy for Public Administrators**

Examines the policy making process in terms of its governmental structure and formal and informal actors. Different theoretical perspectives concerning policy making are explored. Prerequisite(s): PUA 421. 3 credit(s)

**PUA 490 - Seminar in Public Administration**

Synthesis of administrative concepts through an examination of selected topics and case studies. Students prepare research projects for analysis by the seminar group. Prerequisite(s): Junior or senior standing. 3 credit(s)

**PUA 498 - Independent Study**

Students work with a member of the public administration faculty on an area of concern to public administration and prepare a research paper. Prerequisite(s): Six credits in PUA. 3 credit(s)

# Hank Greenspun School of Journalism and Media Studies

## ***Purpose and Focus***

The Hank Greenspun School of Journalism and Media Studies prepares students to become thoughtful scholars, researchers, and effective professionals in multiple converged media platforms, whether the output be professional news, integrated marketing communications, or more scholarly media studies. Faculty engage students in a supportive environment of scholarship and service, stressing knowledge of theory and practice, ethics, critical thinking, and social responsibility.

## ***Undergraduate Major***

Journalism and Media Studies

## ***Areas of Concentration***

There are no formalized areas of concentration for Journalism and Media Studies majors; rather, each student works individually with faculty advisors to craft a coherent area of interest or specialization. In an era of constant media change, many of the traditional tracks through a journalism and media program erect artificial barriers to learning; this open program seeks to avoid those barriers. Students meet with faculty advisors after completing the pre-major courses to identify individual areas of concentration; they may also meet with faculty as they continue their programs of study to make sure they are on track for completion of their degrees.

## ***Admission to the Major***

Minimum: GPA: 2.00

**Admission Policies:** Students will be assigned a Pre-Journalism (JOURPRE) designation until they have completed the following pre-major requirements:

1. Journalism and Media Studies core (9 credits)  
JOUR 100, 101, and 102.
2. UNLV General Education Core courses (16–18 credits)  
ENG 101 and 102  
U.S. and Nevada Constitutions requirement  
Six credits chosen from the remaining general education core requirements. All courses satisfying Pre-Journalism requirements must be completed with at least a C (2.00) grade (C- is unacceptable). Pre-journalism students may not enroll in upper-division JOUR courses (300–400 level) without express permission of the instructors. Upon completion of the pre-major requirements and after meeting with a faculty advisor, students may apply for full admission to the major.

**Transfer Policies:** Transfer students will be assigned a JOURPRE designation until they have completed the pre-major requirements described above. Students must meet with an academic advisor in the college's Student Advising Center for articulation of transfer credit, and with a faculty advisor to determine which courses beyond the core would best serve the interest of the student.

## ***School Policies***

**Academic Policies:** Students must be journalism and Media Studies majors during the completion of the last 30 credits taken

at UNLV in fulfillment of the departmental residency requirement. Journalism and Media Studies courses may not be used to satisfy more than one requirement. Journalism and Media Studies courses may not be used to satisfy more than one requirement, with the exception of international and multicultural requirements. Only course work in the major for which a grade of C or above (C- is not acceptable) is received will count toward satisfaction of the degree requirements. Maintenance of a UNLV 2.00 GPA is required to remain in and graduate from the program.

**Outside Area of Interest:** Although there is no formal minor required, students will complete twelve credits in an outside area of interest. At least six credits must be at the upper division (300-400) level.

**Change of Major:** Change of status from pre-major to major requires the student to acquire a change of major form from the Student Advising Center and follow the steps indicated.

**Internships:** Practical application of classroom experience through professional internships is mandatory for all majors. A student is expected to have completed at least 12 credits of appropriate course work prior to any internship and to have at least a 2.0 GPA. All students must complete three credits of internship.

## ***Advisement***

Upon acceptance as a pre-major, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Hank Greenspun School of Journalism and Media Studies will also advise students. Faculty advisement takes place once a student has completed pre-major courses, or is in the last semester of completing pre-major courses. Students who fail to meet with a faculty advisor will not be allowed to continue in the program until such advisement has taken place.

Transfer students are required to consult with a college advisor within the first semester after admission to the department. This initial advising session will determine to what extent those credits accepted by the university will be accepted as part of the major. Faculty advisement must happen within one academic year of admission.

The Advising Center can be reached at 702-895-1009 or [urbanaffairs@unlv.nevada.edu](mailto:urbanaffairs@unlv.nevada.edu) or may be visited in person on the 4th Floor of Greenspun Hall.

## **Journalism and Media Studies Major - Bachelor of Arts (BA)**

Please see the UNLV Greenspun Department of Journalism and Media Studies web page at [journalism.unlv.edu/index.htm](http://journalism.unlv.edu/index.htm) for information about department programs, faculty and facilities.

Please see advising information at the UNLV Greenspun College of Urban Affairs Student Advising Center [urbanaffairs.unlv.edu/advising](http://urbanaffairs.unlv.edu/advising)

## ***Accreditation***

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)



## Learning Outcomes

1. Analyze and apply the principles and laws of freedom of speech and press, including the right to dissent, to monitor and criticize power, and to assemble and petition for redress of grievances;
2. Analyze the history and role of professionals and institutions in shaping journalism, media and communications organizations;
3. Analyze the diversity of groups in a global society in relationship to journalism, media and communications organizations;
4. Analyze concepts and apply theories in the use and presentation of images and information;
5. Demonstrate an understanding of professional ethical principles in journalism, media, and communications organizations to work ethically in pursuit of truth, accuracy, fairness and diversity;
6. Think critically, creatively and independently;
7. Conduct research and evaluate information by methods appropriate to professional journalism, media and communications organizations;
8. Craft and deliver effective messages in oral, written, and/or visual forms, as appropriate to the journalism, media and communications profession in which they plan to work;
9. Critically evaluate their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness;
10. Apply basic numerical and statistical concepts;
11. Apply tools and technologies appropriate for the journalism, media and communications professions in which they plan work;
12. Prepare collaborative projects for the appropriate journalism, media and communications professions in which they plan to work.

## University Graduation Requirements

- Please see Graduation Policies for complete information

### Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

#### Seminars

##### First-Year Seminar

- GSC 100 - First Year Experience Seminar

##### Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \*required course for all majors in Greenspun College of Urban Affairs

#### Constitution

- PUA 241 - Survey of Public Administration

#### Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

#### Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology
- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 360 - Contemporary Marriage and Families
- SW 101 - Introduction to Social Work

#### Life and Physical Science

- ENV 101 - Introduction to Environmental Science

#### Multicultural

- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families

#### International

- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- JOUR 475 - Global Media
- ENV 205 - Environment and Development

#### In addition

Incoming freshmen are strongly encouraged to join a Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience

Journalism and Media Studies Degree ..... Total: 120 Credits

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements:

General Education Requirements ..... Subtotal: 37-40 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4-6

Mathematics ..... Credits: 3

Distribution Requirement ..... Credits: 19

Please see Distribution Requirements for more information.

- Humanities and Fine Arts:
  - Automatically satisfied by Major requirement
- Social Sciences: 9 credits
  - One course each from three different fields
- Life and Physical Sciences and Analytical Thinking: 9-10 credits
  - PHIL 102 - Critical Thinking and Reasoning
  - and two courses for Life and Physical Sciences category; at least one must have a lab.

#### Multicultural and International (see note 1 below)

#### Major Requirements -

BA in Journalism and Media Studies - Subtotal: ..... 54 Credits

Journalism and Media Studies Pre-Major ..... Credits: 9

- JOUR 100 - Introduction to Journalism and Media Studies
- JOUR 101 - Critical Analysis of the Mass Media
- JOUR 102 - News Reporting and Writing

Journalism and Media Studies Core ..... Credits: 21

- JOUR 305 - Media Ethics
- JOUR 401 - The First Amendment and Society
- JOUR 413 - History of Journalism
- JOUR 435 - Mass Communication Research Methods
- JOUR 475 - Global Media
- JOUR 485 - Mass Media and Society

- JOUR 499 - Professional Internship

Areas of Interest or Specialization ..... Credits: 15  
Areas of interest are crafted for individual students in consultation with faculty advisors, and must be a minimum of fifteen credits. More credits may be recommended and those would reduce the number of upper division electives available.

Upper Division Electives ..... Credits: 9  
Total credits within the major (including pre-major courses): 54 (see note 1)

Electives..... Credits: 26-29  
Total Credits: ..... 120

## Note

1. Total credits within the major, consist of 9 credits of Pre-major courses, 21 credits of Journalism and Media Studies Core, 15 credits of Areas of Interest or Specialization, and 9 credits of Upper division electives for a total of 54 credits.

## Journalism and Media Studies

### JOUR 100 - Introduction to Journalism and Media Studies

Required pre-major course introduces prospective majors to the big names, big themes and big theories of journalism and media studies. Students meet twice each week, once for a mass lecture and once in a break-out discussion section. Lab/Lecture/Studio Hours - Students meet twice each week, once for a mass lecture and once in a break-out recitation section. 3 credit(s)

### JOUR 101 - Critical Analysis of the Mass Media

Analysis of the development of print, film, electronic, and emerging media. Overview of institutional structures and theoretical perspectives. 3 credit(s)

### JOUR 102 - News Reporting and Writing

Provides fundamental instruction and pre-professional practice in writing as a basis for upper-division courses in journalism and media studies. Analysis of news content and how news is obtained and written. Corequisite(s): JOUR 102D. Lab/Lecture/Studio Hours - Discussions and laboratory. 3 credit(s)

### JOUR 102D - News Reporting and Writing Discussion

Discussion section linked to JOUR 102. Students must take both the lecture and one discussion section for credit. Corequisite(s): JOUR 102. 0 credit(s)

### JOUR 202 - Electronic Media Production I

Lecture and lab for the study of and training in studio and field video production, basic post-production, and resource utilization across electronic platforms. 3 credit(s)

### JOUR 210 - Introduction to Public Relations

Study of the practice of public relations including media, employee, consumer, community, shareholder, and customer relations. Emphasis on the history of public relations, its role, and impact on today's society. Prerequisite(s): Sophomore standing, non JOUR majors. 3 credit(s)

### JOUR 212 - Principles of Advertising

Examination of the purpose, function, and role of advertising in society. Emphasis is on the practical application of advertising as part of the marketing mix including customer identification, branding, message development, and media selection. Prerequisite(s): Sophomore standing, non JMS majors. 3 credit(s)

### JOUR 220 - Fundamentals of Applied Media Aesthetics

Survey of the various fields that use visual imagery for communicative purposes. Graphic design, film, and televisual imagery covered. Emphasis on television and film aesthetics and picture composition. 3 credit(s)

### JOUR 223 - Contemporary Audio

Examination of the structure, programming, regulation, and problems of radio in today's world and the role the medium plays in informing and entertaining modern listeners. 3 credit(s)

### JOUR 247 - Introduction to Social Networks and Media

Designed to provide a broad humanistic overview of virtual communities, blogs and other emerging social media platforms, the course offers an introduction to both academic and practical knowledge, as well as limited hands-on experience. 3 credit(s)

### JOUR 250 - Teaching Journalism

An on-line condensed course for high school and middle school journalism teachers covering theory, history, ethics and writing style. 3 credit(s)

### JOUR 261 - Introduction to Integrated Marketing Communications

Introduction to the terminology and theories of all five sectors of integrated marketing communications, including advertising, public relations, direct marketing, personal selling, sales promotions, and digital/social media. Students build core knowledge of IMC strategies in both traditional and emerging media platforms. Prerequisite(s): JOUR 100, JOUR 101, JOUR 102, admitted to the major. 3 credit(s)

### JOUR 276 - Design Principles for Advertising/Publications

Introduction to the visual aspects and basic types of print communication including advertising, periodicals, collateral material, direct mail, point of purchase, promotion, and merchandising. Prerequisite(s): JOUR 100, JOUR 101, JOUR 102, admission to the major. Note(s): Same as GRC 250. 3 credit(s)

### JOUR 305 - Media Ethics

Case study-based examination of ethical theory in communication as it applies to the various disciplines within journalism and integrated marketing communications. Prerequisite(s): Junior or senior standing. 3 credit(s)

### JOUR 310 - Advanced Reporting

Advanced training and practice in gathering and writing news; also exercises in feature writing. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

### JOUR 313 - Photo Journalism

Designed for students interested in learning the techniques of the photojournalist. Emphasis on the operation of the camera, associated camera techniques, and procedures for covering a news or feature photo assignment. Prerequisite(s): Admitted to the Journalism Major. 3 credit(s)

### JOUR 321 - Avid Certified Editing

JOUR 321 is designed to increase your understanding of the processes and procedures of editing in a file-based environment with Avid Media Composer, Version 7.0., leading to certification as Avid Certified Editors. Prerequisite(s): Admitted to the Journalism major and JOUR 202. 3 credit(s)

### JOUR 325 - Electronic Media Production II

Covers advanced electronic production for video and internet delivery platforms, utilizing professional-grade resources to create cross-platform journalistic narratives. Prerequisite(s): Admitted to the major, JOUR 202. 3 credit(s)

### JOUR 332 - Media Planning and Buying

Study and implement print, broadcast, online and outdoor media planning and buying methodologies. Investigate the relationship between the business and its advertising needs. Learn and apply value-added techniques to increase effectiveness of the media plan and the buy plan. Prerequisite(s): JOUR 261, admitted to the major, junior or senior standing. 3 credit(s)

### JOUR 333 - Introduction to Interactive Media Design

Background, analysis, design, and production techniques relevant to interactive media, primarily focusing on the web but appropriate for other emerging media. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

### JOUR 362 - Writing for Public Relations

Introduction to various publicity-creating techniques, including practical experience in writing and producing publicity releases for the mass media. Prerequisite(s): JOUR 261, admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 371 - Media and Sports**

Historical-critical in subject matter, this course explores the ways in which media and sports influence each other. Prerequisite(s): Admitted to the major and permission of instructor. 3 credit(s)

**JOUR 374 - Advertising Copywriting**

Covers copywriting for both print and electronic media anchored in client creative strategies. Prerequisite(s): JOUR 261, admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 380 - Women and Media**

(Same as WMST 380.) Exploration of the role of women within the media and the treatment of women by the media. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 401 - The First Amendment and Society**

Examination of the evolution and contemporary impact of laws relating to communication. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 408 - Media Criticism**

Critical approaches to the study of both traditional and evolving media in all forms. Focus varies by semester. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 411 - News Editing**

Study and practice of news editing. Prerequisite(s): Admitted to the major, junior or senior standing. Lab/Lecture/Studio Hours: Discussions and laboratory. 3 credit(s)

**JOUR 413 - History of Journalism**

History of American mass media from antecedents in medieval Europe to the present. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 420 - Visual Literacy**

Analysis of graphics, film, television, and digital imagery. Theoretical, critical, and practical hands-on applications. From advertising to photojournalism and from entertainment to documentary images, and everything in between, many types of visuals are analyzed and discussed in class. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 424 - Electronic News Practicum**

Production of a student-run, five days per week, newscast for dissemination on both cable television and World Wide Web platforms. Offers extended credits and is the capstone course in this area of the major. Prerequisite(s): JOUR 202, JOUR 325, junior or senior standing. May be repeated to a maximum of twelve credits. 6 credit(s)

**JOUR 433 - IMC Competition**

Join advertising, public relations and marketing students to prepare an integrated marketing communication plan for a national or international client. Compete with other top schools in the American Advertising Federation's National Student Advertising Competition (NSAC). May be repeated to a maximum of nine credits. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 435 - Mass Communication Research Methods**

Survey of empirical research methods in communication including laboratory, field, and survey methods and their applications. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 439 - Broadcast Practicum**

Focus on practical experiences in broadcast or production organizations, with emphasis on both in-studio and portable applications. Prerequisite(s): JOUR 202, JOUR 325, admitted to the major, junior or senior standing and consent of instructor. May be repeated to a maximum of six credits. 3 credit(s)

**JOUR 444 - Advanced Interactive Media Design**

Hands-on advanced experience in interactive media design, primarily focusing on collaborative production of web resources, evaluation techniques, multimedia content, and maintenance of best practices awareness. Prerequisite(s): JOUR 333, admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 445 - Forms of Journalistic Writing**

Semester-long concentration on one of the various specialized forms of journalistic inquiry and subsequent writing and reporting. Topics and specializations will change from semester to semester. Prerequisite(s): Junior or senior standing. May be repeated to a maximum of six credits. 3 credit(s)

**JOUR 447 - Online Games, Virtual Worlds, and Social Networks**

Utilizing popular virtual environments, students gain an understanding of the culture and interpersonal interactions that occur. Many different aspects may be examined including virtual world journalism, business and advertising, fundraising, virtual world religion, and educational aspects. Experimental in many ways, the course can at times be hybrid in nature. 3 credit(s)

**JOUR 450 - Media Technologies and Society**

Examination of the evolution of mass communication technologies from the early days of radio to the satellite systems of the present. Impact of computer technology and prospects for the future of mass communication technology also covered. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

**JOUR 461 - Issues in Advertising**

Examination of current issues that affect the advertising industry and society which may include the study of agencies and clients, public relations, direct marketing, promotions, interactive media, the creative process, ethics and emerging trends. Prerequisite(s): JOUR 100, JOUR 101, JOUR 102, JOUR 261, and one of JOUR 332, JOUR 362, JOUR 374. 3 credit(s)

**JOUR 463 - IMC Strategic Planning: Case Studies in Public Relations and Advertising**

Case-based exploration and application of theory and principles to organization problems and opportunities. Examine strategic planning process for IMC; advertising, public relations, promotion, direct marketing, and emerging media. Emphasis on team-based preparation and presentation of strategic IMC plan for a selected client. Prerequisite(s): JOUR 100, JOUR 101, JOUR 102, JOUR 261, admission to the major and one of JOUR 332, JOUR 362, or JOUR 374. 3 credit(s)

**JOUR 470 - Integrated Marketing Communication Campaigns**

Develop campaign utilizing all components of the IMC model; advertising, public relations promotion, direct marketing, and interactive. Students prepare a written proposal and presentation for a selected client, focusing on strategy and tactics. Prerequisite(s): JOUR 100, JOUR 101, JOUR 102, admission to the major, JOUR 261, JOUR 463 and one of JOUR 332, JOUR 362, or JOUR 374. 3 credit(s)

**JOUR 475 - Global Media**

Analysis of media globalization, including economic, media conglomerate, and technological factors. Case studies of selected countries including cultural, political, regulatory, financial, media structure, media content, news, imports and export, and audiences factors. Note(s): Satisfies the International Requirement. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 484 - Mass Media and Political Communication**

Analysis of historical and contemporary political discourse. Addresses such topics as presidential rhetoric, electoral campaigns, ethics in political culture, institutional leadership, publics and public opinion, mediated political speech, legislative debates, political socialization. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 485 - Mass Media and Society**

Examines theory and research informing the role traditional and evolving media play in shaping public opinion and everyday life. This course also serves as the culminating experience in Journalism and Media Studies. Prerequisite(s): Junior or senior standing. 3 credit(s)

**JOUR 486 - Interviewing**

Principles and techniques of various forms of interviewing, featuring in-class laboratory activities. Emphasis on the informational interview. Prerequisite(s): Admitted to the major, junior or senior standing. 3 credit(s)

### **JOUR 488 - Journalism Boot Camp**

This course will push serious journalism students to produce professional-level work. Besides writing breaking-news and feature stories on various deadlines, for online and print, students will collegially edit one another's work. The goal: to polish the skills necessary to land a journalism job. Prerequisite(s): JOUR 102, JOUR 310. 3 credit(s)

### **JOUR 490 - Selected Topics**

Study of a specific topic related to mass communication. Prerequisite(s): Admitted to the major, junior or senior standing. May be repeated to a maximum of six credits. 3 credit(s)

### **JOUR 493 - Independent Studies**

Supervised study and practical experience in subjects and projects to be determined in consultation with a Journalism and Media Studies faculty member. Students wishing to register for this course must consult with the faculty member prior to registration. Prerequisite(s): Admitted to the major, junior or senior standing. May be repeated to a maximum of six credits. 1-3 credit(s)

### **JOUR 499 - Professional Internship**

Introduces students to language not just as a means of conveying information, but also as a way for individuals and groups express identity and their place in society. Examines how language use shapes worldviews cross-culturally as well as how these worldviews shape language use. Study that language interacts with the social world interact in many ways including through gender, age, and class/caste across diverse cultures. Prerequisite(s): Fully-admitted major, junior or senior standing, written consent of instructor and internship coordinator, appropriate previous course work, and 3.00 GPA. Internships may be repeated to a maximum of six credits. Note(s): S/F grading only. 3 credit(s)

### **LAND 180 - Design Foundation I**

Students are introduced to fundamentals of design principles. Emphasis will be placed on the development of conceptual ideas through experimentation across a range of media and creative disciplines. Note(s): Same as AAD 180, AAI 180. 3 credit(s)

## **Marriage and Family Therapy Program**

The Family Studies minor provides students with a basic understanding of interpersonal development, behavior, and relationships throughout the lifespan. Drawing on theory, research, and experience, this minor provides an interdisciplinary approach to understanding individuals and families. This minor provides specialized knowledge for employment in a variety of educational and social service settings to enhance the development of individuals and families. The minor is designed for students in counseling, communications, health sciences, nursing, policy-making, psychology, recreation, social work, and sociology and for those who want to work with individuals or families. This minor also helps prepare those interested in pursuing graduate studies in counseling and marriage and family therapy.

### **Accreditation**

Northwest Commission on Colleges and Universities

**Admission Policies:** Students may declare Family Studies as a minor at anytime subsequent to being matriculated. Students must have a minimum overall GPA of 2.00 to declare and to graduate with a minor in Family Studies.

### **Program Policies**

**Academic Policies:** A minimum overall GPA of 2.00 must be maintained in order to continue in the Family Studies minor.

### **Advisement**

Upon acceptance as a minor, each student must meet with an advisor. Upon acceptance as a minor, each student must meet with an advisor from the Greenspun College of Urban Affairs' Student Advising Center. To ensure orderly progress toward the degree, the faculty of the Marriage and Family Therapy Program strongly suggest that minors see an advisor at least once each year, preferably every semester. The Advising Center can be reached at 702-895-1009 or [urbanaffairs@unlv.nevada.edu](mailto:urbanaffairs@unlv.nevada.edu) or may be visited in person on the 4th Floor of Greenspun Hall.

### **Family Studies Minor**

**Admission Policies:** Students may declare Family Studies as a minor at any time subsequent to being matriculated. Students must have a minimum overall GPA of 2.00 to declare and to graduate with a minor in Family Studies.

**Academic Policies:** A minimum overall GPA of 2.00 must be maintained in order to continue in the Family Studies minor.

### **Advisement**

Upon acceptance into the minor, we recommend that students meet with an advisor from the Greenspun College of Urban Affairs Advising Center (895-1009). Students should meet with their advisor prior to each semester they are taking classes. The department has developed a schedule of when classes will be offered. Meeting with an advisor will ensure the student stays on track and can graduate in a timely manner.

The Family Studies minor provides students with basic theory in family studies and family therapy with particular attention to family



systems theory, interpersonal dynamics, multi cultural issues, human sexuality, and couples and family therapy.

The following courses are required for the minor

- MFT 150 - Personal Growth
- MFT 225 - Multicultural Issues and Families
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- MFT 370 - Successful Couple and Marital Relationships
- MFT 428 - Introduction to Marriage and Family Therapy

### Notes

1. MFT 150 fulfills the general education social science requirement.
2. MFT 225 fulfills the general education multicultural requirement.
3. MFT 350 fulfills the general education social science requirement.
4. MFT 360 fulfills the general education/social science requirement.

## Marriage and Family Therapy

### MFT 150 - Personal Growth

Facilitates self-awareness and understanding, developing close relationships, resolving interpersonal conflict, promoting physical and psychological health, and examining and expanding one's life goals. 3 credit(s)

### MFT 225 - Multicultural Issues and Families

Explores a variety of multicultural topics related to culture, ethnicity, gender, class, sexual orientation, and physical attributes. Identifies aspects of culture as it relates to internalized beliefs, biases, values, individual and family interactions. Students will examine these topics in relation to self and others. Focuses on awareness, knowledge, and skills in working with diverse individuals, families, and groups in a variety of settings. Note(s): Satisfies Multicultural Requirement. Prerequisite(s): ENG 101 or ENG 102. 3 credit(s)

### MFT 350 - Human Sexuality

Formerly Listed as COU 350

Addresses the physical, social, and emotional aspects of human sexuality. Introduction to scientific information and research pertaining to human sexual behavior and relationships. Addresses topics related to healthy sexuality, decision-making, sexual attitudes, sexual communication and relationships, sexuality over the lifespan, and a variety of issues related to sexuality in today's society. Prerequisite(s): ENG 101 or ENG 102. 3 credit(s)

### MFT 360 - Contemporary Marriage and Families

Analysis of historic and contemporary trends in marriage and family relationships in American society. Examination of major family processes through the life cycle, including functional and dysfunctional patterns and their interactions with individuals and communities. Includes information on family development and parenting. Prerequisite(s): ENG 101 or ENG 102. 3 credit(s)

### MFT 370 - Successful Couple and Marital Relationships

Formerly Listed as COU 370

Examination of dating, mate-selection, and successful couple and marital relationships. Focuses on the individual, social, cultural, and environmental factors that effect couple and marital relationships. Provides students with the opportunity to evaluate current, past, and future relationships. Functional and dysfunctional patterns of behavior (communication, conflict resolution, etc.) explored. Prerequisite(s): ENG 101 or ENG 102. 3 credit(s)

### MFT 428 - Introduction to Marriage and Family Therapy

Formerly Listed as COU 428

Basic examination of marriage and family therapy, including professional issues, major theories and techniques, and introduction to marriage and family counseling skills. Focus is for students preparing for marriage and family therapy (MFT) as a field of professional study or for those students who may work with individuals and families (e.g. child welfare, education, healthcare, law, etc). Prerequisite(s): MFT 150. 3 credit(s)

### MFT 499 - Individual Study

Selected issues related to marriage and families or the treatment of couples and families. Prerequisite(s): MFT 150. May be repeated up to 6 credits. 1-3 credit(s)

# School of Social Work

## Purpose and Focus

The objective of the Bachelor of Social Work degree is to prepare students for beginning level generalist social work practice.

## Program/Learning Outcomes

Upon completion of the Bachelor of Social Work degree, B.S.W. students will:

1. Conduct generalist social work practice with client systems at micro, mezzo, and macro levels.
2. Promote economic and social justice for diverse populations, with an emphasis on urban communities.
3. Have a desire for lifelong learning and professional development.
4. Have the foundation knowledge to enter graduate studies.

## Bachelor of Social Work Systematic Outcome Measures

The School of Social Work assesses outcomes through course outcome measures, exit surveys, field evaluation, alumni surveys and successful completion of the Social Work Licensure Exam.

## Accreditation

Northwest Commission on Colleges and Universities  
Council on Social Work Education (CSWE)

## Undergraduate Major

Social Work

## Admission to the Major

Minimum GPA: 2.00

**Admission Policies:** Students will be assigned a Pre-Social Work major (Pre-SW) designation until they have completed the following pre-major requirements:

1. PRE-SW core: SW 101, 315, 410, one course in multicultural or international studies.
2. UNLV general education core courses (46-49 credits total)
  - ENG 101 and 102 and literature (9 credits)
  - U.S. and Nevada constitutions (3-6 credits)
  - PHIL 102 (3 credits)
  - MATH 124 or higher Must earn a C or better (3 credits)
  - Social Science: SOC 101, PSY 101, ANT 101 (9 credits)
  - Fine Arts: Three-credit intro, survey, or appreciation course; approved Multicultural or International studies courses in fine arts may also be used (6 credits)
  - Sciences: BIOL 100 and one three-credit non-lab course (7 credits)
  - Humanities: COM 101 and one three-credit course in Humanities
  - Multicultural or International studies courses in Humanities may also be used (6 credits)

Students may declare PRE-SW as a major at any time during their academic career; however, students must apply for admission to the major during the last semester of their sophomore year. Students may be admitted to the Social Work program upon completion of a minimum of 60 credits of university core, including Pre-SW requirements as outlined above 40 hours of volunteer or work

experience in a social service agency, and have a minimum overall GPA of 2.00 Applications for admission are available in the Social Work office and online.

## **School Policies**

**Field Practicum Requirements:** In order to enroll in field practicum (SW 419 and SW 429), a student must have senior standing (90 credits), have completed the required prerequisites, be admitted to the full major, and have completed an application for field placement in consultation with the field education staff and/or practicum instructors. SW 419 must be taken concurrently with SW 420. SW 429 must be taken concurrently with SW 421.

## **Advisement**

Students who declare social work as a major will be assigned a career advisor by the School of Social Work. Upon declaring social work as a major, a student must contact the Urban Affairs Student Advising Center for academic advising. Students are expected to schedule appointments with both the academic and B.S.W. program advisor at least once per semester in order to plan course scheduling and to monitor professional progress.

Social work majors receive three advisors:

1. Career Advisor (Full-time social work faculty member)
2. B.S.W. Program advisor (B.S.W. coordinator)
3. Urban affairs Academic Advisor (academic advisor located in the Student Advising Center)

**Career Advisor:** Career Advisors are full-time social work faculty members who are available to answer questions that pertain to student life, career choices, graduate degree options, and social work licensing requirements. STUDENTS RECEIVE A CAREER ADVISOR ONCE THEY HAVE BEEN ACCEPTED INTO THE PROGRAM..

**B.S.W. Program Advisor:** The B.S.W. Program Advisor, known as the B.S.W. Coordinator, is a full-time social work faculty member who assists students in their overall acclimation into the B.S.W. program. The B.S.W. Coordinator helps students select social work courses and related electives. The B.S.W. Coordinator socializes students into the nature of required social work courses. The B.S.W. Coordinator is the point of contact for completing school and university petitions, appeals, independent study requests, and other B.S.W. paperwork. The B.S.W. Coordinator conducts monthly student information sessions and specialized workshops in coordination with the Advising Center. THE B.S.W. COORDINATOR IS AVAILABLE TO ALL STUDENTS IN THE MAJOR (PRE-SW, SW).

**Urban Affairs Academic Advisor:** Urban Affairs academic advisors are available to students throughout the course of their entire UNLV matriculation. Urban Affairs advisors are the primary point of contact in the selection of courses. Urban Affairs advisors maintain and record students' academic checklists, assist students in their preparation of B.S.W. application material (e.g., transcript review), review and certify transfer credits, and prepare graduation applications.

**Sequencing Policy:** The School of Social Work is committed to designing and implementing a course plan that is best for the academic preparation of beginning generalist social workers. Students are, therefore, required to enroll in and complete courses

as specified in the course-sequencing policy of the School. Students will not be permitted to take courses out of sequence. Thus, students may have to minimize or eliminate some personal and professional commitments in order to adequately complete the required sequence of courses.

Students who fail a social work core course must re-enroll in the course and obtain a passing grade prior to enrolling in subsequent courses. Students who receive an incomplete due to circumstances beyond their control (e.g., a documented serious illness or verified death of a family member) may be permitted to enroll in subsequent required courses while simultaneously completing the assignments necessary to resolve the incomplete course grade. Prior to enrollment, students with medical incompletes must first meet with their instructor and the B.S.W. Coordinator so that a comprehensive review of their situation can be made. Students who are permitted to proceed with classes yet do not complete the assignments required to resolve the incomplete grade will not be permitted to enroll in any subsequent classes until the incomplete is resolved.

## **Sequencing of SW 420 and SW 421**

Co-enrollment in SW 420 and SW 421 is not permitted. Those students who fail 420 cannot be granted permission to enroll in 421. The assumption is that a student who receives a failing grade is not ready to progress to the next level without first repeating the material not previously mastered.

Exceptions to this policy will be granted only to those students who receive a medical incomplete ("I") in SW 420. Under special permission, these students may complete unfinished assignments while simultaneously enrolled in SW 421.

For students without a medical excuse, unfinished work from 420 must be submitted prior to the date established by the university as the "last day to withdraw from a class and receive a 100 percent refund." (This date is typically within the first week of the semester.) Students who do not meet the deadline will be withdrawn from their second senior block courses (SW 429, 421, and 481).

## **Courses for Social Work Majors**

With the exception of social work electives and multicultural and international courses, SW 401 through SW 495 are for full social work majors only. Non-admitted students and pre-social work majors will not be permitted to enroll in these courses. (Pre-social work majors may receive an exception for SW 425 if their request is submitted via a school petition.)

## **Independent Study Policy**

The School of Social Work supports students' desires to study one on one with an instructor of their choice when the proposed course is intended to satisfy an elective, ethnic studies, or foreign culture requirement. An independent study intended to fulfill a core school-required course is not permitted. Exceptions should be brought to the attention of the B.S.W. Coordinator via the petition process.

## **Minimum Competency Policy**

The School of Social Work is committed to ensuring that students graduating from our program possess and demonstrate the ability to fulfill their professional obligations to the client, the agency, the community, the society, and the profession of social work. Students are, therefore, required to earn a final semester grade of at least a C (not a C-) for all core social work courses (e.g., all department courses: SW 101-481, SW electives, and SW Independent Study).

Students who do not earn the minimum grade must repeat the course. In some courses, the lack of a C grade or better will prohibit students from sequencing into the next set of core classes.

## Social Work Major - Bachelor of Science in Social Work (BSW)

Please see the School of Social Work web page at [www.unlv.edu/socialwork](http://www.unlv.edu/socialwork) for information about department programs, faculty and facilities.

Please see advising information at the School of Social Work Undergraduate Advising at [urbanaffairs.unlv.edu/advising/](http://urbanaffairs.unlv.edu/advising/).

## Accreditation

Institution - Northwest Commission on Colleges and Universities [www.nwccu.org](http://www.nwccu.org)

Program - The Council on Social Work Education (CSWE) [www.cswe.org/Accreditation.aspx](http://www.cswe.org/Accreditation.aspx)

## Learning Outcomes

1. Identify as a professional social worker and conduct oneself accordingly.
2. Apply social work ethical principles to guide professional practice.
3. Apply critical thinking to inform and communicate professional judgments.
4. Engage diversity and difference in practice.
5. Advance human rights and social and economic justice.
6. Engage in research-informed practice and practice-informed research.
7. Apply knowledge of human behavior and the social environment.
8. Engage in policy practice to advance social and economic well-being and to deliver effective social work services.
9. Respond to contexts that shape practice.
10. Engage, assess, intervene, and evaluate with individuals, families, groups, organizations, neighborhoods and communities.

## University Graduation Requirements

- Please see Graduation Policies for complete information
- Social Work Degree Requirements..... Total: 120 Credits  
Recommended Courses That Meet General Education Core Requirements

The Greenspun College of Urban Affairs strongly recommends that students address their General Education Core curriculum requirements through our college. The following classes offered in our college meet graduation requirements.

### Seminars

#### First-Year Seminar

- GSC 100 - First Year Experience Seminar

#### Second-Year Seminar

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities \*required course for all majors in Greenspun College of Urban Affairs

### Constitution

- PUA 241 - Survey of Public Administration

### Humanities

- COM 101 - Oral Communication
- COM 211 - Survey of Rhetorical Studies
- COM 216 - Survey of Communication Studies

### Social Sciences

- CRJ 104 - Introduction to Administration of Justice
- CRJ 270 - Introduction to Criminology

- CRJ 435 - Jury Decision-Making
- CRJ 469 - Psychology and the Legal System
- MFT 150 - Personal Growth
- MFT 350 - Human Sexuality
- MFT 360 - Contemporary Marriage and Families
- Life and Physical Science
- ENV 101 - Introduction to Environmental Science
- Multicultural
- COM 412 - Intercultural Communication
- CRJ 428 - Women and Crime
- CRJ 429 - Gender and Crime
- MFT 225 - Multicultural Issues and Families
- International
- CRJ 407 - Law in Non-Western Societies
- CRJ 411\* - Comparative Criminal Justice Systems
- ENV 205 - Environment and Development
- JOUR 475 - Global Media
- SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture

### In addition

Incoming freshmen are strongly encouraged to join a themed Learning Community (LC) during their first-year at UNLV. A Learning Community is a cohort of students who take coursework together and benefit from the following outcomes: greater course satisfaction, increased interaction between faculty and students, increased understanding of the connections between disciplines, better connections with peers, improved student engagement and involvement on campus, increased satisfaction with the college experience.

General Education Requirements..... Subtotal: 36-39 Credits

First-Year Seminar ..... Credits: 2-3

English Composition ..... Credits: 6

- ENG 101 - Composition I
- ENG 102 - Composition II

Second-Year Seminar ..... Credits: 3

- GSC 300 - Second-Year Seminar: Civic Engagement in Urban Communities

Constitutions ..... Credits: 4-6

Mathematics..... Credits: 3

- MATH 124 - College Algebra

Distribution Requirement ..... Credits: 18

Please see Distribution Requirements for more information.

- Humanities and Fine Arts: 9 credits
  - Two courses from two different areas - 6 credits
  - One course in Fine Arts - 3 credits
- Social Science
  - Automatically satisfied by Major requirements
- Life and Physical Sciences and Analytical Thinking: 6-7 credits
  - Science with a lab or non-lab science
  - Analytical Thinking - 3 credits
- PHIL 102 - Critical Thinking and Reasoning

### Multicultural and International

Multicultural, one 3 credit course required

International, one 3 credit course required

These courses may overlap with general education and major requirements. A single course may not meet the multicultural and international requirements simultaneously. For the list of approved multicultural and international courses, go to: [facultysenate.unlv.edu/students](http://facultysenate.unlv.edu/students)

### Major Requirements -

BSW in Social Work Major Requirements ..... Subtotal Credits: 45



- SW 101 - Introduction to Social Work
- SW 315 - Human Behavior and the Social Environment I
- SW 401 - Social Welfare Policy
- SW 410\* - Social Work Methods I
- SW 411 - Introduction to Professional Practice
- SW 416 - Social Work Research I
- SW 419 - Field Practicum I
- SW 420 - Social Work Practice I
- SW 425 - Human Behavior and the Social Environment II
- SW 426 - Social Work Research II
- SW 429 - Field Practicum II
- SW 421 - Social Work Practice II
- SW 495 - Capstone Seminar

Additional Requirements..... Credits: 9

Select one from the following:

ECON 180 preferred.

- ECON 102 - Principles of Microeconomics
- ECON 103 - Principles of Macroeconomics
- ECON 104 - Current Economic Issues
- ECON 190 - Global Economics

Ethnic Studies/Cross Culture Electives - Total Credits: 6

Note: Approved Multicultural, International Studies courses may satisfy the ETS requirement.

Social Work Electives..... Credits: 6

Electives..... Credits: 20

Total Credits: 120

## Notes

1. In keeping with the Council on Social Work Education's (CSWE) accreditation standards, academic credit for life experience and previous work experience is not given.
2. In satisfying the University General Education Core requirements, all social work majors must take:
  - Social sciences: SOC 101 - Principles of Sociology, PSY 101 - General Psychology, ANTH 101 - Introduction to Cultural Anthropology, Mathematics: MATH 124 - College Algebra, Sciences: BIOL 100 - General Biology for Non-Majors,
  - and Humanities: COM 101 - Oral Communication

## Social Work

### SW 101 - Introduction to Social Work

Introduction to the profession of social work within historical context. Emphasis on values, human diversity, social problems, and fields of practice. 3 credit(s)

### SW 104 - Perspectives in Aging

Designed to provide a conceptual and theoretical base for the study of aging. Similarities and differences between minority and majority aged groups examined. Prerequisite(s): SW major. 3 credit(s)

### SW 315 - Human Behavior and the Social Environment I

Foundation for understanding human behavior at the levels of individuals, families, and micro-groups. Focus on the normal bio-psycho-socio development and functioning and the impact of social, cultural, and economic forces on individual, family, and group well-being. Introduction to individual, family and group dysfunction also presented. Prerequisite(s): SW 101, SOC 101, PSY 101, ANTH 101. 3 credit(s)

### SW 401 - Social Welfare Policy

Focuses on the complex and dynamic nature of the development of social policies with particular attention to the process that occurs in the evolution of a social problem to implementation of social policy. Prerequisite(s): SW 101, SW 315, SW 410\* and full major standing only. 3 credit(s)

### SW 402 - The Effects of War on Individuals and Communities

Examines the effects that overwhelming and horrifying events in war have on the individual and their social environment. A variety of countries at war will be examined through film, literature, journal articles, and the internet to help understand the settings and real life outcomes of war. Prerequisite(s): Junior level status, PSC 101 or SOC 101. Note(s): Satisfies International Requirement. This course is crosslisted with SW 602. Credit at the 600-level requires additional work. 3 credit(s)

### SW 405 - Group Practice

Studies the use of groups in social work practice. Includes historical development, group dynamics and theory, group process, the value base of social group work. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with SW 605. Credit at the 600-level requires additional work. 3 credit(s)

### SW 410 - Social Work Methods I

Communication theory and skills applied to social work with individuals, groups, communities, and agencies. Emphasis on self-assessment and diverse urban populations. Prerequisite(s): SW 315. 3 credit(s)

### SW 411 - Introduction to Professional Practice

Orientation to professional aspects of beginning social work practice through instruction, role playing, guest speakers, and guided field visits. Additional focus will be on group work, mediation, conflict management, referrals, and ethical issues in working with the clients. Prerequisite(s): SW 410\*. 3 credit(s)

### SW 416 - Social Work Research I

Scientific approach to knowledge-building for social work practice. Ethical and diversity issues, basic concepts in research methodology, and steps needed to conduct a research project introduced. Sampling procedures and various research designs, including both quantitative and qualitative methods, with various exercises to provide practice. Prerequisite(s): For full social work majors only, MATH 124. 3 credit(s)

### SW 418B - Information and Referral

Methods and processes in identifying social service resources in the community, client referral and follow-up. Prerequisite(s): Consent of instructor. Lab/Lecture/Studio Hours Lecture-discussion and field visit format. 1 credit(s)

### SW 418C - Interviewing Techniques

Practical experience in interviewing. Attention focuses on the purpose and relationship aspects of helping interview. Prerequisite(s): Consent of instructor. 1 credit(s)

### SW 419 - Field Practicum I

Supervised social work practice experience consisting of 240 hours in a social service agency and attendance in weekly field seminar classes. Provides for an integration and application of social work values, knowledge, and skills from micro- to macro-levels of generalist practice. Corequisite(s): SW 420. Prerequisite(s): For full social work majors only. SW 101, SW 315, SW 401, SW 410, SW 411 and consent of Field Director. 6 credit(s)

### SW 420 - Social Work Practice I

Integration and application of intervention strategies for beginning social work practice. Organizing framework the generalist perspective, which utilizes the problem-solving and strengths approach. Primarily focuses on individuals, families, and groups. Corequisite(s): SW 419. Prerequisite(s): For full social work majors only. 3 credit(s)

### SW 421 - Social Work Practice II

Formerly Listed as SWK 430.

Integration and application of intervention strategies for beginning social work practice with groups, communities, and organizations. Corequisite(s): SW 429, and SW 495. 3 credit(s)



**SW 425 - Human Behavior and the Social Environment II**

Provides foundational understanding of behavior and change at the level of organization, community, macro-level groups (e.g. task groups), and culture. Examines human behavior and change in macro systems and the impact of social and cultural forces on organizations, communities and macro-level groups. Prerequisite(s): SW 315. Notes For full social work majors only. 3 credit(s)

**SW 426 - Social Work Research II**

Introduces students to data analysis, descriptive and inferential statistics, computer skills and application of SPSS. Single-subject design and program evaluation included to teach students to systematically evaluate their own practice at all system levels. Exercises assigned to help students practice hands-on SPSS skills and interpret study results. Prerequisite(s): SW 416. 3 credit(s)

**SW 429 - Field Practicum II**

Supervised social work practice experience consisting of 240 hours in a social service agency and attendance in weekly field seminar classes. Provides for an appropriate progression in the integration and application of social work values, knowledge, and skills from micro- to macro-levels of generalist practice. Corequisite(s): SW 495. Prerequisite(s): SW 419, SW 420, and consent of the field director. 6 credit(s)

**SW 441 - Social Work with the Elderly**

Examination of social work practice with the elderly based on critical analysis of theories of the aging process. Prerequisite(s): Consent of instructor. 3 credit(s)

**SW 460 - Basic Concepts in Social Work Administration**

Concepts of organizational function, structure, and process applied to understanding how organizations constrain or facilitate the delivery of human services. Prerequisite(s): SW 101, SW 401, SW 410\*, SW 416. 3 credit(s)

**SW 461 - Seminar: Contemporary Issues in Social Welfare**

In-depth examination of current major issues in social programs and policies, and consideration of alternatives. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with SW 661. Credit at the 600-level requires additional work. 1-3 credit(s)

**SW 462 - Child Welfare Issues**

Study of public child welfare, history, policy, programming, services, and practice. For use in child abuse and neglect, child removal, permanency planning, termination of parental rights, reservation/reunification of families, supportive services to families, current interventive and service delivery systems, home-based preventive services, foster care and adoption. Prerequisite(s): Junior standing. 3 credit(s)

**SW 470 - Community Organization Practice**

Studies the use of community organization in social work practice. Includes historical development, community organization dynamics and theory, process, and the value base of community organization practice. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with SW 670. Credit at the 600-level requires additional work 3 credit(s)

**SW 471 - Advanced Seminar: Special Problems**

Topic to be selected by instructor. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. Note(s): This course is crosslisted with SW 671. Credit at the 600-level requires additional work. 1-3 credit(s)

**SW 472 - Principles of Family Practice**

Seminar designed to study the principles, process, and skills required for helpers to assist family members in coping with dysfunction in the family unit. Prerequisite(s): Consent of instructor. 3 credit(s)

**SW 473 - Transitions: Women and Men in the Middle Years**

Exploration of the period in the life span known as the "vital years" or "prime time." Understanding of the social, psychological, physical, and environmental changes that occur in women and men during the middle years. Prerequisite(s): Consent of instructor. 3 credit(s)

**SW 474 - Grant Writing and Management**

Prepares current health and human service professionals to develop and write effective grant proposals. Provides a basic overview and review of the grant writing process. This course helps students generate program ideas, plan and develop funding proposals to support those ideas, and seek appropriate funding sources. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with SW 674. Credit at the 600-level requires additional work. 3 credit(s)

**SW 475 - Treatment of Addictions**

(Same as CED 450.) Five elements covered include; classification of drugs, phases of treatment of addictions, basic individual and group treatment skills, contents of various treatment approaches, and the treatment guidelines regarding working with special populations, including women, adolescents, elderly, etc. Prerequisite(s): Consent of instructor. Note(s): This course is crosslisted with SW 675. Credit at the 600-level requires additional work. 3 credit(s)

**SW 478 - Global Child Welfare**

Addresses the major challenges faced by children and their families globally and prepare the student for further study or action in specific areas of concern. Each content area (poverty, child labor, exploitation, etc.) will cover incidence, political, social and cultural interplay, current response, and recommended future strategy. Prerequisite(s): SW 315, SW 425. Note(s): This course is crosslisted with SW 678. Credit at the 600-level requires additional work. 3 credit(s)

**SW 493 - Gandhian Welfare Philosophy and Nonviolent Culture**

(Same as PHIL 493.) Introduction to the chosen topics in Gandhian welfare philosophy. Ethical, moral, social, and political foundations of Gandhian thought explored and their applications to problem resolution strategies and peaceful change at different levels demonstrated. Prerequisite(s): Consent of instructor. Note(s): Satisfies International Requirement. This course is crosslisted with SW 693. Credit at the 600-level requires additional work. 3 credit(s)

**SW 494 - Eastern Conceptions and Social Work Practice**

Introduces Eastern conceptions, useful in social work practice. Broader knowledge of life, living, society, values, relationships, and behaviors extended. Applications sought for lasting and effective problem-solving and therapeutic processes. Prerequisite(s): Senior standing. Note(s): This course is crosslisted with SW 694. Credit at the 600-level requires additional work. 3 credit(s)

**SW 495 - Capstone Seminar**

Formerly Listed as SW 481. Integration of knowledge, values, and skills relating to social work practice into a capstone generalist experience. The student will demonstrate competencies at the beginning social work practice level. Corequisite(s): SW 429 Prerequisite(s): SW 419 and SW 420. 4 credit(s)

**SW 499 - Independent Study**

Intensive study in a specific area of student interest under the direction of a faculty member. Prerequisite(s): Consent of instructor. May be repeated to a maximum of six credits. 1-4 credit(s)