



UNLV *Graduate Catalog*

2009-2011

Nevada System of Higher Education

The Nevada System of Higher Education, comprised of two doctoral-granting universities, a state college, four comprehensive community colleges and one environmental research institute, serves the educational and job training needs of the nation's fastest growing state. The NSHE provides educational opportunities to more than 108,000 students and is governed by the Nevada Board of Regents

Daniel Klaich
Chancellor

The Board of Regents wishes to advance student learning to the highest level, foster the expansion of knowledge through teaching and research, encourage community service, and enrich the lives of our students, our communities, our state, and the nation. In fulfillment of this purpose, we hold the following values at the center of our endeavor:

- Integrity
- Excellence
- Accountability
- Inclusiveness
- Creativity
- Innovation

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Disclosures

Rights of Privacy Act of 1974

The Federal Family Education Rights and Privacy Act of 1974 affords persons who are currently, or who were formerly, in attendance at the university as registered students a right of access to their "educational records," which contain information directly related to such persons and the right to challenge the accuracy of their records. The act also restricts the persons to whom the university may disclose a student's educational records without the student's written permission. The university's policy is to comply fully with all provisions of the act, and a detailed

statement concerning the rights afforded current and former students is available, at no cost, in the office of UNLV's General Counsel. Any person who feels the university has failed to comply with the Federal Family Education Rights and Privacy Act may file a complaint with the Family Education Rights and Privacy Act Office, Department of Education, 300 Independence Avenue S.W., Washington D.C. 20201.

Annual Jeanne Clery Campus Safety and Security Report

In order to comply with provisions of "The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act", reports from the University community and local law enforcement agencies are compiled and published annually by the Department of Public Safety. As law enforcement professionals tasked with the maintenance of a safe and secure educational environment, it is our responsibility to provide a comprehensive report regarding the campus public safety environment including the incidence of crime.

Limitations

The 2009-2011 Graduate Catalog describes current academic programs of study, course descriptions and degree requirements at the graduate level for the academic years 2009-10 and 2010-11 at the University of Nevada, Las Vegas. The content of this catalog is current as of August 2009, but is subject to modification at any time to accommodate changes in university resources or educational plans.

This catalog does not constitute a contractual commitment that the university will offer all the courses or programs described, and the university reserves the right to revise catalog provision and fees at any time in accordance with the actions of the president the Nevada System of Higher Education, or any other governing body. The university reserves the right to eliminate, cancel, reduce in size or phase out courses, academic programs and/or limit enrollments in specific programs and courses, to change fees during the student's period of study, and to require a student to withdraw from the institution for cause at any time.

Inquiries

Inquiries should be addressed to: Dean of the Graduate College, University of Nevada, Las Vegas, 4505 Maryland Parkway, Box 451017, Las Vegas, NV 89154-1017, (702) 895-3320, or call UNLV's main switchboard at (702) 895-3011. Visit the UNLV Web site at <http://www.unlv.edu>. @2009



A Message from UNLV President Neal J. Smatresk

As the new president of UNLV, I'm delighted to encourage you to consider graduate studies at the University of Nevada, Las Vegas. UNLV is a wonderful institution with exceptional programs, excellent faculty, and a supportive atmosphere where graduate education thrives.

As you explore graduate education at UNLV, you'll be pleased to learn that nearly a quarter of UNLV's students are currently enrolled in graduate/professional programs. The number of students in these programs has increased by 33 percent since 2003. These numbers should provide some indication of the significance of graduate studies at UNLV. We know that high quality graduate education is pivotal to the growth and sophistication of our institution.

In addition to supporting the educational and research missions of the university, graduate education also plays a pivotal role in preparing tomorrow's leaders in many professions. It enables our students to move into the workplace with the kind of preparation that only advanced study can provide. Alumni of our graduate programs are the professionals who lead our community in health care, education, law enforcement, social work, business, art, and engineering, just to name a few critically important fields. Their contributions are vital to the quality of life that we enjoy here in Southern Nevada.

Again, we welcome your interest in UNLV and encourage you to join us in our dedication to research and graduate education as we create a bright future for our university and community.

Dr. Neal J. Smatresk
UNLV President

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Degree Programs

Accounting – M.S.
Anthropology – M.A.; Ph.D.
Architecture – M. Arch
Aerospace Engineering – M.S.
Art – M.F.A
Astronomy – M.S.; Ph.D.
Biochemistry – M.S.
Biological Sciences – M.S.
Biomedical Engineering – M. S.
Business Administration – M.B.A.; Executive M.B.A.
Business Administration/Dental Medicine – Dual M.B.A./
D.M.D.
Business Administration/Hotel Administration – Dual
M.B.A./M.S.
Business Administration/Law – Dual M.B.A./J.D.
Business Administration/Management Information
Systems – Dual M.B.A./M.S.
Chemistry – M.S.; Ph.D.
Civil & Environmental Engineering – M.S.E.; Ph.D.
Clinical Mental Health M.S.
Communication Studies – M.A.
Community Health Counseling – M.S.,
Computer Science – M.S.C.S.; Ph.D.
Construction Management – M.S.C.S.
Creative Writing – M.F.A.
Criminal Justice – M.A.
Crisis and Emergency Management – M.S.
Curriculum & Instruction – M.Ed.; M.S.; Ed.S.; Ed.D.; Ph.D.
Economics – M.A.
Education/Law – Dual Ph.D in Education/J.D.
Educational Leadership– M.Ed.; M.S.; Ed.S.; Ed.D.;
Executive Ed.D.; Ph.D.
Educational Psychology–M.S.; Ed.S.; Ph.D.
Educational Psychology & Juris Doctor Dual Ph.D./J.D.
Electrical & Computer Engineering – M.S.E.E.; Ph.D.
English – M.A.; Ph.D.
Environmental & Occupational Health – M.P.H.
Environmental Science – M.S.; Ph.D.
Ethics & Policy Studies – M.A.
Exercise Physiology – M.S.
Film, Screenwriting – M.F.A.
Foreign Languages – M.A.
Geosciences – M.S.; Ph.D.
Health Care Administration – M.H.A.
Health Physics – M.S.
Health Promotion – M.Ed.
Higher Education Leadership – Ph.D.
Higher Education Leadership – M.Ed.
History – M.A.; Ph.D.
Hospitality Administration – Executive M.H.A; Ph.D.
Hotel Administration – M.S.
Hotel Administration/M.B.A – Dual M.S./M.B.A.
Hotel Administration/M.I.S. – Dual M.S./ M.I.S.
Informatics – M.S.; Ph.D.
Journalism & Media Studies – M.A.
Kinesiology – M.S.

Learning & Technology – Ph.D.
Management Information Systems – M.S.
Management Information Systems & Business Administration
Dual M.S./M.B.A.
Management Information Systems & Hotel Administration
Dual M.S.
Marriage & Family Therapy – M.S.
Materials & Nuclear Engineering – M.S.
Mathematical Sciences – M.S.; Ph.D.
Mechanical Engineering – M.S.E., Ph.D.
Music – M.M.
Musical Arts – D.M.A.
Nursing – M.S.N.; Ph.D.
Physical Therapy – D.P.T.
Physics – M.S.; Ph.D.
Political Science – M.A.; Ph.D.
Psychology – Ph.D.
Public Administration – M.P.A.
Public Affairs – Ph.D.
Public Health – M.P.H.; Ph.D.
Radiochemistry – Ph.D.
School Counseling – M.Ed.
Science – M.A.S.
Social Work – M.S.W.
Social Work/Law – Dual M.S.W./J.D.
Sociology – M.A.; Ph.D.
Spanish, Hispanic Studies – M.A.
Special Education– M.Ed.; M.S.; Ed.S.; Ed.D.; Ph.D.
Sport & Leisure Service Management – M.S.
Sport Education Leadership– M.Ed.; M.S.; Ph.D.
Teacher Education – Ph.D.
Theatre – M.A.; M.F.A.
Transportation – M.S.T.
Water Resources Management – M.S.
Workforce Education & Development – M.Ed; M.S.

Graduate and Advanced Graduate Certificate Programs

Addiction Studies (Counselor Education)
Advanced Graduate Certificate in Accounting (Accounting)
Graduate Certificate in Accounting (Accounting)
Graduate Certificate in Management (Management)
Family Nurse Practitioner (Nursing)
Finance Graduate Certificate (Finance)
Forensic Social Work (Social Work)
Management Information Systems (Management Information)
Marriage & Family Therapy (Marriage & Family
Therapy)
Mental Health Counseling (Counselor Education)
New Venture Management Graduate Certificate (Management)
Nonprofit Management (Public Administration)
Nursing Education Post-Masters Certificate (Nursing)
Pediatric Nurse Practitioner Certificate (Nursing)
Public Management (Public Administration)
Women's Studies (Women's Studies)

Academic Calendar

Fall Semester 2009

August	24	Instruction begins.
September	7	Labor Day recess.
October	30	Nevada Day recess.
November	11	Veterans Day recess.
December	26-27	Thanksgiving Day recess.
	7-12	Study Week.
	12	Instruction ends.
	10-15	Final examinations.
	15	Semester ends.
	15	December Commencement.

Spring Semester 2010

January	11	Instruction begins.
	18	Martin Luther King holiday.
February	15	Washington's Birthday recess.
March	13	Mid-semester.
	29	Spring Break begins.
April	3	Spring Break ends.
	26	Study Week begins.
May	1	Study Week ends.
		Instruction ends.
	8	Semester ends.
	8	Commencement.

Summer Session 2010 I

May	10	Instruction begins.
	28	Instruction ends.

Summer Session 2010 II

May	31	Memorial Day Recess
June	1	Instruction begins.
	2	Instruction ends.
July	5	Independence Day recess.
	6	Instruction begins.
	11	Instruction ends.

Summer Session 2010 III

July	5	Instruction begins.
August	6	Instruction ends.
Fall 2010		
August	23	Instruction begins.
September	6	Labor Day recess.
October	29	Nevada Day recess.
November	11	Veterans Day recess.
	25-26	Thanksgiving recess.
	29	Study Week begins.
December	4	Study Week ends.

4	Instruction ends.
11	Semester ends.

Spring Semester 2011

January	17	Martin Luther King holiday.
	18	Instruction begins.
February	21	Washington's Birthday Recess.
March	14-19	Spring Break.
May	2-7	Study Week
	7	Instruction ends.
	14	Semester ends.
		Commencement. (TBA)

Summer Session 2011 I

May	16	Instruction begins.
	30	Memorial Day Recess.
June	1	Instruction ends.

Summer Session 2011 II

June	6	Instruction begins.
July	4	Independence Day recess.
	9	Instruction ends.

Summer Session 2011 III

July	11	Instruction begins.
August	13	Instruction ends.

***Dates are subject to change**

UNLV Web Resources

Graduate College:

<http://graduatecollege.unlv.edu/>

Graduate Study Timeline

<http://graduatecollege.unlv.edu/current/guidance/>

Research and Graduate Studies

<http://research.unlv.edu/>

The Graduate & Professional Student Association

<http://gpsa.unlv.edu/>

Academic Colleges & Divisions:

Business

<http://business.unlv.edu/>

Education

<http://education.unlv.edu/>

Engineering

<http://engineering.unlv.edu/>

Fine Arts

<http://finearts.unlv.edu/>

Honors

<http://honors.unlv.edu/>

Hotel

<http://hotel.unlv.edu/>

Health Sciences (Division of)

<http://healthsciences.unlv.edu/>

Liberal Arts

<http://liberalarts.unlv.edu/>

Sciences

<http://sciences.unlv.edu/>

Urban Affairs

<http://universitycollege.unlv.edu/>

Additional Resources, Departments, & Services:

Campus Life

<http://studentaffairs.unlv.edu/units/campuslife/index.html>

Campus Recreation and Wellness Center

<http://srwc.unlv.edu>

Career Services

<http://hire.unlv.edu>

Cashiering and Student Accounts

<http://cashiering.unlv.edu>

Disability Resource Center

<http://studentlife.unlv.edu/disability>

Financial Aid and Scholarships

<http://finaid.unlv.edu/>

International Students and Scholars

<http://studentlife.unlv.edu/international/>

Jean Nidetch Women's Center

<http://womenscenter.unlv.edu>

Library Services

<http://www.library.unlv.edu/>

Office of Student Conduct

<http://studentlife.unlv.edu/judicial/>

Parking Services

<http://parking.unlv.edu>

Rebel Card Services

<http://www.rebelcard.edu>

Registrar's Office

<http://register.unlv.edu/>

Research Centers & Institutes

<http://research.unlv.edu/cli&m/centers-institutes.html>

Student Computing Help Desk

<http://oit.unlv.edu/students>

Student Counseling & Psychological Services

<http://studentlife.unlv.edu/caps/>

Student Diversity Programs & Services

<http://getinvolved.unlv.edu>

Student Health Center

<http://studentlife.unlv.edu/shc/>

Student Union

<http://studentunion.unlv.edu>

UNLV Bookstore

<http://unlv.bnccollege.com>

UNLV Campus Dining

<http://www.unlvdining.org>

Veteran Services

<http://finaid.unlv.edu/veterans/>

Writing Center

<http://writingcenter.unlv.edu>

About UNLV

The University of Nevada, Las Vegas, located in the vibrant and dynamic city of Las Vegas and surrounded by the Mojave Desert, embraces the traditional values of higher education adapted for the global community of the twenty-first century. UNLV assists students in meeting the intellectual and ethical challenges of responsible citizenship and a full and productive life through opportunities to acquire the knowledge and common experiences that enhance critical thinking, leadership skills, aesthetic sensitivity, and social integrity.

The university provides traditional and professional academic programs for a diverse student body and encourages innovative and interdisciplinary approaches to teaching, learning, and scholarship. UNLV simultaneously engenders collegial relationships and a sense of community among its members. UNLV embraces the interdependence of quality instruction, scholarly pursuits, and substantive involvements in campus and community life. The university offers artistic, cultural, and technical resources and opportunities to the broadest possible community. It promotes research programs and creative activities by students and faculty that respond to the needs of an urban community in a desert environment. UNLV is committed to developing a synergy between professional and liberal studies, between undergraduate education and graduate programs, and between superior teaching and meaningful research. UNLV increasingly is a dynamic resource for, and partner with, the community that it serves.

In its 50-year history, UNLV has undergone an amazing transformation from a small branch college into a thriving urban research institution of 28,000 students and 3,300 faculty and staff.

Along the way, the urban land-grant university has become a dynamic resource for one of the country's fastest-growing and most enterprising cities. UNLV's 332-acre main campus, located on the southern tip of Nevada in a desert valley surrounded by mountains, is home to more than 220 undergraduate, master's, and doctoral degree programs, all accredited by the Northwest Commission on Colleges and Universities.

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 educational 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 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.

Program Accreditations

All programs at UNLV are accredited by the Northwest Commission on Colleges and Universities (NWCCU). UNLV's international programs are approved by the Council on International Educational Exchange (CIEE). For more accreditation information, visit the UNLV Program Accreditations webpage.

Accounting

The Association to Advance Collegiate Schools of Business (AACSB)

Architecture

National Architectural Accrediting Board (AAB)

Art

National Association of Schools of Art and Design (NASAD)

Athletic Training

Commission on Accreditation of Athletic Training Education (CAATE)

Business Administration

The Association to Advance Collegiate Schools of Business (AACSB)

Computer Science

Accreditation Board for Engineering and Technology (ABET)

Construction Management

American Council for Construction Education (ACCE)

Didactic Program in Dietetics

Commission on Accreditation for Dietetics Education (CADE)

Dental Medicine

Commission on Dental Accreditation (CODA)

Economics

The Association to Advance Collegiate Schools of Business (AACSB)

Education

The National Council for Accreditation of Teacher Education (NCATE)

Engineering

Accreditation Board for Engineering and Technology (ABET)

Gerontology

Association for Gerontology in Higher Education (AGHE)

Health Care Administration

Association of University Programs in Health Administration (AUPHA)

Health Education

American Association for Health Education (AAHE)

Health Physics

Applied Science Accreditation Commission of the Accreditation Board for Engineering and Technology (ASAC ABET)

Interior Architecture and Design

Council for Interior Design Accreditation (CIDA)

Landscape Architecture

Landscape Architects Accreditation Council (LAAB)

Law

American Bar Association (ABA) (member of AALS)
Association of American Law Schools

Marriage and Family Therapy

Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE)

Music

National Association of Schools of Music (NASM)

Nuclear Medicine

Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT)

Nursing

National League for Nursing (NLN)

Phlebotomy Certificate

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

Physical Education

National Association for Sport & Physical Education (NASPE)

Physical Therapy

Commission on Accreditation in Physical Therapy Education (CAPTE)

Psychology (Clinical)

American Psychological Association (APA)

Public Administration

National Association of Schools of Public Affairs and Association (NASPAA)

Radiography

Committee on Education in Radiologic Technology (JRCERT)

Recreation – Professional Golf

Management Professional Golf Association (PGA)

Social Work

Council on Social Work Education (CSWE)

Theatre

National Association of Schools of Theatre (NAST)

Division of Research & Graduate Studies



As Vice President for Research and Graduate Dean, I would like to extend a warm welcome to those interested in graduate study at UNLV. I believe you will find our graduate programs among the best in the country, attracting the best and brightest students nationally and internationally.

Offering nearly 120 graduate degree programs, including 36 doctoral and professional degrees,

UNLV provides wide-ranging and unique areas of study to more than 6,000 graduate and professional students. The UNLV Graduate College seeks to provide its students with the highest quality academic experience, including excellent opportunities for research, scholarship, and creative activity. We pride ourselves on cultivating a campus culture that promotes involvement of graduate students in these activities.

We also seek to identify new and innovative ways to meet graduate students' needs. We provide ample opportunities for financial assistance, offering a wide variety of assistantships, fellowships, and scholarships, and we maintain a customer service orientation in our efforts to meet student needs beyond the classroom and laboratory.

The Graduate College looks forward to working with your academic department to facilitate your education. We are dedicated to enhancing your experience at UNLV and will do our very best to guide you as you pursue graduate study.

Ron Smith, Ph.D.
Vice President & Graduate Dean
Division of Research and Graduate Studies

The UNLV Graduate College

The Graduate College strives to achieve the institutional mission by supporting a wide range of excellent master's and doctoral degree programs in the major areas of human knowledge—the physical sciences, the social sciences, the humanities, and the arts—as well as in professional fields that respond to local, state-wide, and

regional needs. It is clear that our institution's mission of becoming a premier metropolitan research university with academically excellent programs that focus on student needs as well as issues and problems of the local community and state of Nevada rests, in large part, with the direction, growth and quality of UNLV graduate education. This commitment is further supported by the integration of the university's research and graduate program management into the Office of Research and Graduate Studies. This structure strategically links the on-going development of UNLV's research infrastructure with graduate education and directly enhances scholarship opportunities for graduate students.

The Graduate College seeks to support and advance graduate education, including the student learning, the research, scholarly, and creative activities, and the community and institutional services associated with it. The Graduate College is ideally suited to fulfill this purpose and, in this capacity, will assist academic departments and colleges as well as coordinate efforts with student service and administrative offices to meet the needs and interests of graduate students, graduate faculty, and graduate programs; encourage programs and programmatic emphases that meet the challenges of our rapidly growing local population, state, and region as well as the challenges facing the nation and world; articulate a standard of intellectual excellence that pervades university discussions and decisions about matters that affect graduate education; provide university-wide policies and guidance which define good practice in graduate program administration; and bring faculty and students together to encourage intellectual communication, multidisciplinary and interdisciplinary graduate instruction; and cooperative research and artistic projects.

The Graduate College, in all of its policies and actions, must reinforce and encourage that the institution is an intellectual community where students, faculty, and programs with different backgrounds and interests all pursue advanced knowledge and seek improvement of the human condition for the twenty-first century. This shared purpose ultimately defines the most important reason for the existence of a Graduate College and the larger community.

Equal Opportunity

It has been and will continue to be the policy of the University of Nevada, Las Vegas, to be an equal opportunity institution. All decisions of admissions and employment are based on objective standards that will further the goals of equal opportunity.

The university is committed to assuring that all programs and activities are readily accessible to all eligible persons without regard to their race, color, religion, gender, national origin, ancestry, age, disability, Vietnam-Era and/or disabled veteran status, any protected class under relevant state and federal laws, and, in accordance with university policy, sexual orientation.

Persons having questions regarding university policies relating to nondiscrimination law are encouraged to contact

the Office of Human Resources and Diversity Initiatives, Campus Services Building, room 237 or call (702) 895-3504.

Your Graduate School Experience

The reasons for enrolling in graduate school are as varied as the people who make up the graduate student population. Your decision to seek an advanced degree means you share with other UNLV graduate students a spirit of adventure that comes with discovery—discovery of new information, new skills—and discovery of the depths of your own intellectual abilities. You will also share a capacity for hard work, because graduate study, whatever the subject matter, is difficult. But at the end of the sometimes tedious, oftentimes exhilarating work in your chosen field, you will have the satisfaction of having mastered a body of knowledge that places you in an elite group. Your achievement of a graduate degree will be a beginning, not an end. It will only be the start of your development and a forecast of your potential for future contributions to your chosen area of interest.

The university's advanced degree programs are based on close working relationships between students and faculty. Although most programs can be developed to meet the needs and interests of the individual student, the student must also satisfy all departmental and Graduate College requirements. Therefore, it is important that all students carefully read the appropriate sections of this catalog and stay in close contact with the faculty members in their degree program. Students are responsible for being aware of and observing the policies and regulations stated in the Graduate Catalog.

The Graduate Dean with the advice of the Graduate Council determines policies and procedures of the Graduate College. The Council consists of one delegate from each academic department that sponsors an advanced degree program, and it operates with standing committees. The Graduate and Professional Student Association also has representatives on the Graduate Council. The Graduate Dean and Associate Graduate Dean are ex-officio members of the Graduate Council and each standing committee.

Once enrolled as a student, you will have various responsibilities within the academic community. The conduct of all persons affiliated with the University of Nevada, Las Vegas is governed by the 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. Printed copies of the code are available in the Registrar's Office. The UNLV Student Conduct Code is available through the UNLV Office of Student Conduct.

Services for Graduate Students

The Graduate College offers services to support graduate students in many different areas. In cooperation with various offices at the University of Nevada, Las Vegas, Graduate Student Services seeks to provide information and programs aimed at the unique needs of graduate students.

Orientation. Every semester, prior to the beginning of classes, the Graduate College conducts an orientation for new graduate students and Graduate Assistants. Each department and/or program offering a graduate degree provides additional orientation and advising for new students.

Recruitment. UNLV is committed to growing selectively, serving the region, and achieving distinction. In recognition of this commitment, the Graduate College seeks to develop, implement, coordinate, and monitor a university-wide graduate recruitment program. Primary goals of this program are to assist the individual graduate programs to identify potential graduate students and to encourage these students to apply and enroll. Also, the Graduate College participates in the UNLV McNair Scholars Program that helps to identify and prepare under represented and minority students for graduate school.

Thesis and Dissertation Support. For many programs, the thesis or dissertation represents the culmination of the graduate experience. The Graduate College provides guidance, oversight and direction to graduate students and faculty concerning the policies and procedures for final submission of the thesis or dissertation.

Professional Development Programs. The Graduate College works with other campus units to provide a formal, value-added experience for graduate students that will enhance their career development. For example, a Professional Development Program in College Teaching is currently offered in association with the University Teaching and Learning Center to individuals seeking academic careers.

Student Advising Services. The advising services provide informal and student-centered issue-resolution services, and general advising advice, to graduate students and prospective graduate students. The office offers guidance, information, and assistance when regular channels have failed to provide graduate students with the information that they need to solve problems or make informed decisions. Note: The office does not provide academic advising; students must consult with the graduate coordinator in their own graduate program, or program of interest, for academic guidance.

Graduate and Professional Student Association

The Graduate & Professional Student Association was formed in 1980 to provide additional opportunities for graduate students to interact, both socially and academically, and to provide a forum for dealing with problems specific to graduate student life. GPSA's primary

goals are to improve the quality of graduate education and to offer graduate student grants for research and other scholarly projects.

Each department on campus has a graduate student representative who communicates all pertinent information concerning the GPSA to his/her constituents. The GPSA has graduate student representation on all standing committees of the Graduate College and participates in at least one community service project each semester.

The GPSA office provides a study and social lounge, a copy service and a computer lab. The office is open year round, all day and some evenings. Meetings are held on the first Monday of every month, and all graduate students are encouraged to attend and participate. For more information contact the GPSA office, Lied Library, Room 3251 or call (702) 895-2261.

Admission & Registration Information

Admission to the Graduate College at the University of Nevada, Las Vegas is competitive; the minimum standard is evidence of the ability to matriculate in and complete an advanced graduate degree successfully. The rules and criteria established by the Board of Regents, University, Graduate College, and individual graduate programs determine admissibility.

The Graduate College processes applications and supporting materials when received for the semester indicated by the applicant. All application materials must be received by June 15 for fall and November 15 for spring admission (May 1 and October 1, respectively, for international applicants). Application deadlines vary by department, and many graduate programs have different admissions deadlines that applicants must meet to be considered for admission. Students should contact the department where they are seeking admission to get this information.

In consultation with the Graduate College, departments have the right to establish additional admission standards and criteria. It is the responsibility of the applicant to contact the appropriate department for information on additional departmental admission requirements. Please note that applicants must submit admissions materials to both the Graduate College and their graduate program of interest simultaneously in order to apply for admission. The process below describes the Graduate College requirements; please also follow the requirements, guidelines and deadlines of your degree program of interest.

Admission Requirements

Requirements for Domestic Applicants

Applicants must meet the following academic requirements:

1. Hold a baccalaureate or advanced graduate degree from a regionally accredited four-year college;
2. Have a minimum overall grade point average of 2.75 (4.00=A) for the bachelor's degree, or a minimum 3.00 GPA (4.00=A) for the last two years of study;
3. A student who has an advanced degree from an accredited college or university with a minimum overall GPA of 3.00 may, at the option of the Graduate Dean and department, be admitted to an advanced degree program with an undergraduate grade point average of at least 2.00 but less than 3.00.

Requirements and Procedures for International Applicants

International applicants are considered for the Graduate Standing classification only. Besides the admission requirements listed previously, international applicants from countries where English is not the native language, or who did not receive a degree from an institution where English is the language of instruction, must show competency in English. The Graduate College requires a minimum score of 550 (written), or 213 (computerized), or 80 (internet-based) on the Test of English as a Foreign Language (TOEFL), 85 on the Michigan Test, or a 7 band or higher on the International English Language Testing System (IELTS).

Credentials not written in English must be accompanied by an English translation certified as true by a university official, an official representative of a United States embassy or consulate, the United States Information Service, the United States Education Foundation, or an approved professional translating service. Notarized copies of originals or translations are not considered official.

International applicants must submit a completed Certificate of Finance to the Office of International Students & Scholars, must satisfy the financial eligibility requirements, and receive their Letter of Admission from the Graduate College by July 1 if admitted for fall semester and November 15 if admitted for the spring semester before an I-20 will be issued.

For information concerning matters not related directly to the degree program (housing, fees, etc.), contact the Office of International Students and Scholars. Once admitted, international students must consult with this office and their academic advisor.

Application Procedures for Domestic and International Applicants

To be considered for admission, prospective students must complete two simultaneous application processes: one in the Graduate College and the other in the department that offers your program of study. The Graduate College requires the same application and admission materials from all prospective graduate students, regardless of department of

interest. Individual academic departments may require satisfactory composite scores on standardized tests, letters of recommendation, a personal statement, portfolio, or any combination of these or other items. Because departmental requirements vary, please refer to your department of interest for specific application requirements and deadlines. To apply to the Graduate College, submit the following admission materials for consideration:

- A completed application: The application is available for you to fill-out online by selecting the “Applying to Graduate School” link on the Graduate College homepage at <http://graduatecollege.unlv.edu>.
- A nonrefundable admission application fee, payable to the Nevada System of Higher Education by check, money order, or online by credit card.

*Note: Applications and materials will not be processed until the application fee is received. Applicants to multiple UNLV graduate programs must pay the admission application evaluation fee for each application filed. Denied applicants, who later seek admission to the same or other UNLV degree program, are required to pay an additional application fee to cover processing.

- One official transcript from every postsecondary institution the applicant has attended, showing all degrees and coursework, the dates awarded, and extension and correspondence work.

*Note: Only transcripts sent directly from the institution are considered official. Failure to disclose all course work and/or degrees awarded will result in rescission of admission.

Send Graduate College admission materials to:

University of Nevada, Las Vegas
Graduate College
FDH 352 Box 451017
4505 S. Maryland Parkway,
Las Vegas, NV 89154-1017

Mailing addresses for specific graduate programs are available on department websites via the Graduate College website. Applicants must submit admission materials to your department of interest by their deadline. Because departmental requirements vary, please be sure to refer to your department of interest for specific application requirements. Many graduate programs require some or all of the following documentation:

- One official transcript from all postsecondary institutions attended, showing all degrees and the dates awarded and extension and correspondence work. Only transcripts sent directly from the institution are considered official. Some departments only require

unofficial transcripts; please check with your department of interest to confirm.

- Letters of recommendation sent by former instructors, employers, or other professionals who can evaluate the applicant’s potential to complete graduate study.
- Resume, portfolio, etc. Some departments may request additional materials (i.e., resume, portfolio, and statement of purpose, writing samples, and the like).
- Standardized test scores. In addition, some departments may require satisfactory composite scores on the Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), Miller Analogies Test (MAT), or other standardized tests. Information concerning standardized examinations required for admission to the degree program is available from the Student Development Center. Some examinations are given only four or five times a year and require that registration be completed a minimum of six weeks prior to the test date. With the exception of the Miller Analogies Test (MAT), students may take the required tests at other colleges or universities if taking them at UNLV is inconvenient for the applicant.

The Admission Process

1. A Student Admission File is created upon receipt of an admission application and fee. Applications are not processed until the Graduate College receives all required credentials. To avoid processing delays, students must submit the online admission application and fee prior to sending additional materials (i.e., transcripts, test scores, letters of recommendation, etc.). Applicants are responsible for making sure the Graduate College and department receive the appropriate credentials by the required deadlines. All application materials, including transcripts, become the property of the university and may not be released to the applicant or any individual.
2. The Graduate College evaluates the application materials and forwards them to the department for review. Upon review of the materials, the department will make a recommendation to the Dean of the Graduate College for approval. Early submission of all application materials to the Graduate College and department simultaneously, facilitates a more expeditious review process.
3. Applicants will be notified of their admission status on their Apply Yourself page (online). Those accepted to pursue a UNLV graduate degree will receive a Letter of Admission from the Graduate College. The Letter of Admission is an important document that the student should retain.
4. The admission process is completed upon enrollment in graduate-level courses for the specified term and degree program indicated on the Letter of Admission. Failure to enroll or withdraw from all course work, during the

semester of admission will void the Letter of Admission.

*Note: Occasionally a student may be admitted with deficient undergraduate preparation contingent on the deficiency being corrected by completing one or two undergraduate courses early in the graduate program. Students needing more than two undergraduate courses are advised to consult with the department for a recommendation on which courses they should take to meet the prerequisite admission requirements. These courses will not apply toward the advanced degree. Most College of Education departments require a minimum of 18 undergraduate credit hours in professional education courses. Nevada professional certification may be considered as fulfilling this requirement. To be considered for admission for a future semester, the student must reapply and submit another application processing fee.

Transfer Work

Courses used to fulfill requirements for one degree may not be used toward another degree. For UNLV Non-Degree Seeking graduate students, a maximum of 15 graduate credits taken at UNLV may be applied toward a graduate program. Graduate work with a grade of B or higher (3.00, A=4.00) may be transferable into a degree program subject to departmental and Graduate Dean approval. Grades of B- or lower, and courses graded on a satisfactory pass/fail basis, are not transferable into graduate degree programs. With the department and Graduate College approvals, no more than one-third of the minimum number of credits required for the degree (not including credits for thesis, dissertation, and professional/scholarly papers) may be transferred from an accredited graduate degree granting institution.

Second Admission or Readmission to the Graduate College

Students may apply for a second master's degree (in a different department) or a doctoral degree after completing a master's degree. In these cases, students must submit a new application for admission, the fee, and supporting credentials required by the Graduate College and the new department or program.

The Graduate College issues only two Letters of Admission without earning a degree. If a degree results from the admission, there is no limit to the number of allowable future admissions.

Change of Department

Students are admitted to pursue an advanced degree in a specific department or program. To change to another department or program, students must submit a new application for admission, the required application fee, and all necessary admission credentials to the Graduate College. Upon admission, the student must withdraw in writing from

the original department. Graduate students may not be enrolled in two degree programs simultaneously.

Revocation of Admission

It is assumed that the information provided on the application for admission is complete and accurate. Subsequent evidence to the contrary may result in the admission being revoked and the loss of any credit or degree stemming from the admission. To reapply for admission after a revocation, a new application and fee are required. Students should contact the Graduate College to determine what additional materials are needed. Materials from the previous application, such as official transcripts, may be used.

Admission Status and Classification of Students

Graduate Standing

Students accepted to pursue a program leading to an advanced degree are classified as having Graduate Standing. The Graduate Standing classification allows students to plan and matriculate in a degree program, to request formation of an advisory committee, and to be assigned or select a faculty advisor, depending on the degree program.

Graduate Provisional

Students whose previous academic records are not strong enough to merit Graduate Standing may be granted probationary admission and classified as Graduate Provisional. This classification does not apply to students with deficiencies or insufficient undergraduate credits in the chosen field of study. The Graduate College and the student's department determine placement in this classification.

A provisional student must complete nine credit hours of graduate-level course work selected by the department and listed on the Letter of Admission. The student must complete this course work within one calendar year of admission, with grades of B or higher, (B- grades are unacceptable) before taking additional course work. Failure to complete the required course work in the specified period or a grade less than B (3.00) will automatically cancel the student's admission.

When the Graduate College receives the grades covering the required course work, the student will be given Graduate Standing status. A student may only be admitted as a Graduate Provisional student once.

Conditional Admission

A Conditional Admission status may be granted when the applicant must submit additional material before finalizing admission, i.e., a final transcript of course work in progress while applying for admission. Graduate Standing or Graduate Provisional students may also be classified as Conditional Admission. The Letter of Admission will specify which material must be submitted and the date the Graduate College must receive it. Failure to meet the

condition(s) will automatically cancel the student's admission.

Non-Degree Student

The Non-Degree Student status is assigned to individuals with baccalaureate degrees who wish to take graduate courses but not pursue an advanced degree. Registration for classes as a Non-Degree Student is processed through the Graduate College. Generally, Non-Degree Students may enroll in up to 12 credit hours per semester.

Department faculty are responsible for determining the adequacy of preparation of Non-Degree Students before allowing them to take upper-division or graduate courses which are open to Non-Degree Graduate Students. The student should check with the department about graduate courses accessible to Non-Degree Students. It is the student's responsibility to provide proof of adequate preparation.

A Non-Degree Graduate Student wishing to seek a degree must apply for admission to the Graduate College and pay an application processing fee. Non-Degree Graduate Students may transfer up to fifteen UNLV credits with grades of B or higher into a degree program. Courses taken as a Non-Degree Graduate Student count toward the degree program at the discretion of the graduate coordinator, and/or department chair, and Graduate Dean.

Undergraduates Taking Graduate-Level Courses

Undergraduates with a minimum 90 semester hours of credit and 3.00 or higher grade point average may enroll in graduate courses. Students in the Honors Program must have a minimum of 45 semester hours of credit and a 3.00 or higher grade point average. The Approval for an Undergraduate to Enroll in 700-level Course Work Form must be completed and necessary signatures obtained and approved by the Graduate College prior to registration. Students may enroll in up to six hours of graduate-level courses during one semester.

Reserving Courses for Graduate Credit. Upon approval, UNLV undergraduates may take 600/700-level course work and reserve the credits earned for possible use in an advanced degree program. Course work reserved for graduate credit may not be used to satisfy baccalaureate degree requirements.

Graduate Courses for Undergraduate Credit. Upon approval, UNLV undergraduates may take 600/700-level course work for use in an undergraduate degree program. Courses used in an undergraduate program may not be applied toward an advanced degree at a later date.

Immunization Requirement

Nevada state law requires all new University of Nevada, Las Vegas graduate students to submit proof of immunization before they may register for classes. New students are

required to provide proof of immunity to remove a registration hold. The Graduate College sends immunization forms along with the admission notification. For further information, contact the Student Health Center at (702) 895-3370.

Nevada Residency

The Dean of the Graduate College determines the Nevada residency of graduate students according Board of Regents regulations and the laws of the State of Nevada. Persons, such as Nevada certified school teachers and Armed Forces personnel stationed in Nevada, are normally accorded residency status. A full statement of the regulations is available online.

Registration Policies

The university outlines specific registration procedures in the Schedule of Classes, which is made available prior to each semester by the Registrar's Office. Students must register for classes using the procedures outlined in the class schedule including enrolling by the dates and times specified for each semester or special session. Students paying fees after the date and time specified in the schedule may be charged a late fee. An administrative drop may result for nonpayment of fees. The registration or enrollment of a student ineligible to attend the university is subject to immediate cancellation. A full-time graduate student is one who is enrolled in nine or more semester credits or equivalent or six credits for graduate assistants.

Adding or Dropping Classes

Students may add or drop a course up to the close of the late registration period. After this date, and with approval, students may make changes only when the circumstance is sufficiently extraordinary to warrant an exception.

Dropping/Withdrawing From Classes

The terms drop and withdraw are used interchangeably. The academic policies and calendar dates for dropping and withdrawing are the same. Drop generally refers to dropping one or more courses during a given semester. Withdrawal generally refers to the act of dropping all courses during a given semester.

A student may drop or withdraw from full semester courses during the free drop period (first ten weeks of the fall or spring semester) without a grade. The instructor must provide a preliminary evaluation of the student's grade before the end of the free drop period. No drops or withdrawals will be permitted after the end of the free drop period as published in the current class schedule (see Grades and Examinations). Refer to the appropriate class schedule for drop dates for special modular courses, short courses, extended education and summer term courses. Students who stop attending class and fail to file an official drop request form with the Registrar will receive a grade of F.

Students who wish to withdraw from all classes must obtain a Withdrawal form from the Registrar's Office, obtain all required signatures, and return the form to the Registrar's Office. The withdrawal is official only after the Registrar's Office accepts it.

A student who has officially dropped a class and who is no longer registered for credit or audit is ineligible for further attendance in that class.

Cancellation of Registration

The university reserves the right to cancel any registration in specific courses for which the student is ineligible. The registration of any student who is ineligible to attend the university is subject to immediate cancellation. The university also reserves the right to cancel the registration of an individual whose attendance, in the opinion of the appropriate administrative officials, would not be mutually beneficial to that person and to the institution.

Cancellation of Courses and Programs

The university reserves the right to cancel any registration in which the enrollment is insufficient to warrant offering the course and/or to eliminate, cancel, phase out or reduce in size courses and/or programs for financial, curricular or programmatic reasons.

Repeat Policy

Any course may be repeated, regardless of the grade received. Credit will be allowed only once for successful completion of the course, except for 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. The repeat grade must be on the same grading option as the original grade. The original grade will remain on the student's academic record with suitable notation. For courses repeated prior to February 1971, both the original grade and the repeat grade are included in the grade point average. Students are responsible for providing the Registrar's Office with written notification when a repeat course is completed. Computer-printed grade reports may not initially compensate for repeated courses. Grade point averages, credits attempted, and credits earned will be manually adjusted.

When a course is repeated more than once, only the original grade is omitted in computing the grade point average. 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, class standing will not be affected by the results. A student receiving a final grade of 'F' in a course can obtain credit by pre-registering for the course, repeating the class work, and receiving a passing grade.

A failed course cannot be challenged by examination. A failed course does not have to be repeated unless the course is a specific college or department requirement. A student may be allowed to repeat any course once and not have the

original grade computed in the graduation GPA. If a course is repeated more than once, only the original grade is omitted in computing the graduation GPA.

Unit of Credit

The unit of credit, or semester hour, is generally defined as one 50-minute lecture a week for a semester. Two or three laboratory hours per week, depending on the amount of outside preparation required, usually carries the same credit as one lecture hour.

Course Numbers

Graduate-level courses are numbered 500-799.

Undergraduate-level courses are numbered 100-499.

Symbols

Numbers separated by a hyphen indicate courses which must be taken in sequence. The first semester is prerequisite for the second, for example, 701-702. Numbers separated by a comma indicate courses which may be taken one without the other, for example (701, 702). Various areas of the same course may be taken for credit. They are indicated by letters, for example A., B., etc.

Grading System

The following symbols are used in reporting and recording student grades:

A	Superior
B	Above Average
C	Average
D	Below Average
F	Failing
AD	Audit
I	Incomplete
S	Satisfactory
X	Hold Grade

Note: Faculty members have the option of using plus (+) and minus (-) for grades of A, B, C, and D. Exception: A+ grades are not given.

I or Incomplete Grade

The following regulations apply to the 'I' or Incomplete grade:

1. The 'I' grade is used for content/lecture type courses designed to be completed within one semester and where the student has failed to complete all of the requirements. The instructor is responsible for determining if the reason for non-completion is satisfactory.
2. An 'I' is given only when a minor part of the course work remains incomplete and the major portion has been completed at a level which is clearly passing.
3. Graduate students receiving an 'I' grade in 500, 600- or 700level courses have one calendar year to complete all course requirements and remove the 'I' grade; however, the instructor may require that it be made up in less time. If course requirements are not completed within

one year, the Registrar's Office will automatically record a grade of 'F'. Students must make up an Incomplete in a 400-level or lower course in one semester.

S or F (Satisfactory or Failing) Grades

The Satisfactory (S) or Failing (F) mark is used upon completion of the thesis, dissertation, professional paper or for noncredit or satisfactory/fail courses. Grade-point values are not assigned for S. Many graduate and professional schools may not accept satisfactory/fail credits, or accept them only if accompanied by written evaluations of the work accomplished in such courses that bear upon the field of specialization. Additional evidence such as GRE or other advanced test results may also be required. UNLV does not accept graduate courses graded satisfactory/fail for use in a degree program except thesis, dissertation, or professional paper credits.

X (Hold) Grade

The X grade is restricted to 500-, 600- or 700-level research or clinical practicum courses where the course requirements may extend beyond one semester.

Grade Changes

A reported grade may be changed because of a clerical error made by the instructor or Registrar. Grade changes require the approval of the Graduate College Dean. Under present university regulations, the Registrar cannot change a grade once six months have passed following issuance of the official student grade report.

Transcripts of Credit

Official transcripts bear the University Seal, the Registrar's signature, and reflect all academic work attempted at UNLV. Upon written request, the Office of the Registrar will issue official UNLV transcripts. Requests should be made at least one week before the date the transcripts are needed. The Registrar will not issue transcripts for any student having a delinquent indebtedness to the university. In addition, transcripts of work from other institutions will not be issued. Work in progress does not appear on the transcript until the semester or registration period officially ends. Transcripts are not prepared during final examination, grade recording, and registration periods.

Academic Policies

The policies and regulations of the graduate program or department, the Graduate College, the University of Nevada, Las Vegas, and the Board of Regents are subject to review and change. The Graduate College Policy Manual

and the UNLV Student Conduct Code are available by request in the Graduate College and on our website. It is the responsibility of students to know and observe all regulations and procedures relating to their graduate program, the Graduate College, and UNLV. In no case will any regulations be waived or an exception granted based on a plea of ignorance of, or contention that the graduate program, Graduate College, or university did not inform a student of the regulations or procedures. Questions regarding graduate-level study regulations and their interpretation should be addressed to the Graduate College.

Academic Integrity

All members of the UNLV community are dedicated to learning. The university and the graduate college expect nothing less than a high level of scholarly integrity and academic honesty on the part of students, faculty, staff, and administrators.

Quality academic work requires honesty. The UNLV faculty and administration regard any attempt by a student to present as his or her own work that which he or she has not solely produced as a serious offense. Students are considered to have cheated, for example, if they copy the work of another; use unauthorized Note: or other aids during an examination; turn in a paper or an assignment written, in whole or in part, by someone else as their own. Students are guilty of plagiarism, intentional or not, if they copy material from books, magazines, or other sources without identifying and acknowledging the sources, or if they paraphrase ideas from such sources without acknowledging them. Students guilty of, or assisting others in, either cheating or plagiarism on an assignment, quiz, examination, or other scholarly endeavor may receive a grade of 'F' for the course involved, and may be suspended or removed from the program. Additionally, UNLV has established policies regarding research misconduct among students, faculty and staff. Research misconduct pertains to commission of any of the following acts: falsification of data, improper assignment of authorship, claiming another person's work as one's own, unprofessional manipulation of experiments or of research procedures, or misappropriation of research funds. (Adapted from the 1994-95 Graduate Catalog Northern Illinois University).

If a student is deemed by a faculty member to be guilty of academic dishonesty, where applicable, the student may be assigned a failing grade for the corresponding segment of the course or for the entire course. The faculty member or administrator also may initiate disciplinary review under procedures described in the Nevada System of Higher Education document Rules and Disciplinary Procedures for Members of the University Community.

Disciplinary sanction options described therein include warning, probation, suspension, and expulsion or revocation of a degree if a degree has been previously awarded. In all cases the faculty member is responsible for recording the circumstances, notifying the student in writing, and for

giving the student an opportunity to reply. Appeals go to the chair of the student's academic department, academic dean and Graduate Dean.

If a graduate student fails to maintain the standards of academic or professional integrity expected as defined in writing by their discipline or program, the student's admission status in his or her program will be terminated. If any member of the university community is deemed guilty of academic dishonesty, action may be brought under the Rules and Disciplinary Procedures for Members of the University Community. In addition, students who violate these standards will be subject to conduct sanctions, in accordance with the UNLV Student Conduct Code and Policies, in order to promote their own personal development, to protect the university community, and to maintain order and stability on campus.

Credit Requirements

Residence Credit Requirement

Resident credit means any graduate course that is satisfactorily completed at UNLV, except credits earned by special examination or correspondence courses.

Correspondence study, 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 minimum of 50 percent of the total credits required to complete the master's, specialist, or doctoral degree not including transferred credits, the thesis, dissertation, or professional paper must be earned at UNLV after admission to a graduate degree program.

Graduate Credit

All courses numbered 500-799 are considered graduate level. To determine which graduate-level courses will apply to a specific degree, the student must have them approved on a degree program. Prior to having a degree program approved, there is no guarantee that a course will apply toward the degree. To be considered a graduate-level course, the instructor must be a member of the Graduate Faculty. The Graduate College requires a minimum of 50 percent of the degree program semester hours are 700-level courses excluding thesis, dissertation, or professional/scholarly paper. Individual departments may require more than the Graduate College minimum.

Graduate-level courses may not be challenged. Graduate courses which are graded on a satisfactory/fail basis, may not be used in a graduate degree program except for thesis, dissertation, or professional/scholarly paper credits.

Credit toward Degree

Courses used to fulfill requirements for one degree may not be used toward another degree. No more than three credits of a student's degree program may consist of UNLV

workshop, institute, and conference credits, and the student must have received a grade for these credits.

A course in which a grade of less than C was received will not be considered for use toward the degree.

Departments may impose a higher grade standard. Experimental, experiential (life and work experiences), correspondence, and audited courses may not be applied toward the degree. In addition, courses numbered in the 100-499 series cannot be used for graduate credit.

Credit may be used toward the graduate degree for courses taken while an undergraduate at UNLV only if the course was reserved for graduate credit. See the Admissions section for this information.

Transfer Credit Limitations: Prior to Admission and Enrollment

Not more than one-third of a student's degree program (not including the thesis, dissertation, or professional/scholarly paper) may be transferred from another university at the time admission is granted. Courses used to fulfill requirements for one degree may not be used to reduce credit hour requirements in another degree program. For UNLV Non-Degree graduate students, a maximum of 15 graduate credits taken at UNLV may be applied toward a graduate degree program.

Transfer Credit Limitations: After Admission and Enrollment

Once admitted to an advanced degree program, students must obtain prior written consent of the department and the Graduate Dean to take course work elsewhere and use it in their degree program. Such work must be graduate level, graded, and must not be experimental, correspondence, or extended in nature.

The department chair, the graduate coordinator, the academic dean responsible for approving the student's degree program, and the Graduate Dean must approve all credits taken prior to admission or transfer credit. To be considered for use:

1. The work must have been taken at an accredited institution;
2. The work must have been completed with a grade of B or higher (B- is not acceptable);
3. Official transcripts covering the work must be sent directly from the issuing institution to the Graduate College; and
4. The work must be posted to the student's permanent academic record.

Transfer credit is approved only when evidence exists that the work is certifiably graduate level and has not been used in another degree program. The age of the transfer work under consideration, or the year taken, may also be a factor. The student is responsible for providing this evidence. Courses used to fulfill requirements for a previous degree may not be used toward another degree.

After admission, credits (workshops and correspondence courses will not be considered) taken at another institution may be applied toward the degree if prior permission is obtained. Contact the Graduate College for the request form, additional information and the conditions of transfer credits.

Limitation on Credit Load

The university considers a graduate student taking nine credits per semester as full-time (six credit hours if the student is a graduate assistant). Please note that the number of credits enrolled impacts financial aid. Contact the office of Financial Aid and Scholarships for further information.

Graduate students normally may not take more than 12 credit hours (10 if a graduate assistant) during the fall and spring terms. They may take no more than six credit hours in a single five-week Summer Term and earn no more than a total of 12 credits during the Summer Term (pre, post, and regular five-week sessions combined). Overload petitions are available in the Graduate College office. Petitions must be approved by the Graduate Dean prior to registration.

Grade Point Average

A candidate for an advanced degree must have an overall grade point average of 3.00 for all graduate program approved courses. The GPA, computed by the Graduate College, includes all completed graduate course work accepted at admission and all subsequently approved course work.

Continuous Enrollment

After admission to a graduate program, students must register for a minimum of six semester hours each calendar year. Students working on a thesis or dissertation must register for three semester hours of credit each semester (excluding summer), until the document has been completed and has been given final approval. Students who have not registered for academic work within one calendar year will be separated from their program and must reapply for admission should they wish to continue. Exceptions to the above policy, as with a request for a leave of absence, are made only with the approval of the student's advisor, department chairperson or graduate coordinator, academic dean and the Graduate Dean. Any student using the services of the academic staff or university facilities must be registered for the period during which the services are rendered or the facilities are used. Students must be registered during the semester they intend to graduate and/or take final, comprehensive, preliminary, examinations, defend a thesis or dissertation.

Six-Year and Eight-Year Policy

The Six-Year and Eight-Year Policy applies to all course work, including all approved transfer degree course work. In special circumstances, the student's faculty advisory committee may recommend that the Graduate Dean extend these degree time limits. Each department may establish

shorter periods than those previously discussed contingent upon the approval of the Graduate Dean and inclusion in the Academic Policies section of this catalog.

Students violating the six-year and eight-year policy and/or the continuous enrollment policy are no longer automatically eligible to complete their program under the requirements in place at the time of admission. This decision is left to the discretion of the department. Students are considered making satisfactory progress toward the degree as long as they are completing six degree program credits per calendar year. Students not meeting this requirement will be separated from the Graduate College.

Master's Degree Students: All master's degree requirements must be completed within six years. Course work completed more than six calendar years before the term in which all degree requirements are met may not be used in the degree program.

Doctoral Degree Students: A student beginning a doctoral degree program and holding a master's degree in an appropriate field of study must complete all doctoral degree program requirements within six years. A student beginning a doctoral degree program without a master's degree must complete all requirements for the degree within eight years.

Leave of Absence

When necessary a student may request approval for a leave of absence from a degree program. During the leave of absence, the student should remain in contact with the department. However, all degree requirements must be completed within the six- and/or eight-year policy as stated previously.

Probation and Separation

Departments are to review the academic performance of graduate students at the end of each semester and/or academic year. If a department determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean separate the student from the college or place the student on probation. The department must provide the student with the specific requirements, including deadlines, which must be completed to be removed from probation. If the Graduate Dean approves the request, the student will be placed on probation. Failure to meet the conditions of the probation will result in separation from the Graduate College.

Failure to make satisfactory progress may include: failure to complete six credits per calendar year toward the degree program; unsatisfactory grades (including Incompletes, grades below a B, or Withdrawals); failure to consult with the advisor when requested; failure to establish a graduate committee; failure to develop an official, approved degree program; failure to establish the groundwork for an acceptable thesis or dissertation; and failure of comprehensive and qualifying examinations.

Students must prove that they are making satisfactory progress. Departments may establish their own benchmarks for progress, consistent with degree program requirements and standards in the field. Satisfactory academic progress also involves maintaining the standards of academic and professional integrity expected in a particular discipline or program. Failure to maintain these standards may result in termination of the student's admission to a graduate degree program.

A UNLV graduate student who has been dismissed for academic reasons is not eligible for admission or re-entry. The student must petition the Graduate College for academic reinstatement.

Administrative Drops and Classroom Conduct

Failure to attend a course or to submit required work will result in a grade of F. The student who neglects a course is solely responsible for dropping the course or withdrawing from the university. However, an administrative drop may be initiated at the discretion of the instructor, who will record the circumstances. The approval of the academic dean offering the course is required. Deadlines for an administrative drop are the same as for a drop initiated by the student and are based on the date received at the Registrar's Office. The student will be notified by the final grade report.

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the right of other students to learn or of instructors to teach. Use of electronic devices such as pagers, cellular phones, or recording devices, or other potentially disruptive activities, is permitted only with prior explicit consent of the instructor. The instructor may rescind permission anytime during the course.

If a student does not comply with requirements or obstructs the functioning of the class, the instructor may initiate an administrative drop. The instructor must record the circumstances. The approval of the dean of the college offering the course is required. Before a decision, the dean will consult with the student and other parties as appropriate.

Serious cases of misconduct, as defined by the Rules and Disciplinary Procedures for Members of the University Community, will be referred to the appropriate administrative officer for action.

Change of Address

Any change of address should be reported immediately to the Registrar's Office and the Graduate College. Any correspondence from the university mailed to the last address provided by the student to the Registrar and Graduate College will discharge all university responsibility for notification.

Appeals and Procedures

Appeals are to request reconsideration of a course grade, alleged unfair practice, and relief or waiver from a UNLV and/or Graduate College policy or requirement. Appeals must be filed with the Graduate College Office (FDH 3 09) in a timely manner. The Graduate College must receive grade appeals within 60 calendar days from the last day of the term/semester in question. The Registrar's Office must receive notification to change a grade due to clerical error within 60 calendar days from the last day of the term/semester. Each appeal is reviewed individually and a decision will be based on the merits and documentation provided.

It is the student's responsibility to provide a clear and concisely written statement of the appeal and to provide all relevant documentation to be reviewed. Written appeals must include:

1. UNLV Graduate College Appeal Form as a cover sheet
2. Written Statement of Appeal addressed to the appropriate UNLV administrator
3. Relevant documentation and support. For example, documents may include medical records, work verification, police reports, death certificates, airline receipts, letters from professors on university letterhead, transcripts, etc. If the issue is not resolved between the student and course instructor, a written appeal should first be directed to the Graduate Coordinator of the department in question. If the problem remains unresolved to the student's satisfaction, appeals must be directed in progressive order to the Department Graduate Coordinator, Department Chair, College Dean, then subsequently to the Graduate Dean. The Graduate Dean may act to resolve the problem or request the Graduate College Committee on Faculty and Student Issues to review the problem and make its recommendation to the Graduate Dean. The Graduate Dean will inform the student of the final decision.

Advisors and departments may have varying methods of processing appeals. Your department should be contacted for specific policies and procedures. The Graduate College Graduate Faculty and Student Issues Committee is the designated College Committee to hear certain graduate student and faculty appeals and is composed of graduate faculty a graduate student representative.

Waiver of Regulations

The Graduate Dean will consider a student's written request for waiver of a regulation upon a written recommendation from the student's department and committee chair. The regulation in question must be specified and the reason for the exception clearly stated. The Graduate Dean will notify both the student and the department of the decision.

Policies and Procedures on the Protection of Research Subjects

Human Subjects: Graduate students conducting research must adhere to UNLV policies and procedures regarding the use of human subjects. All research projects in which human subjects are involved must be reviewed and approved under the authority of the UNLV Institutional Review Board (IRB), which consists of two committees - Biomedical Sciences Committee and Social and Behavioral Sciences Committee. The IRB is responsible for the development and monitoring of university policy and procedures involving the use of human subjects in research. The provision for the protection of human subjects in research applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff. It also applies to persons unaffiliated with UNLV, who wish to investigate subjects under the protection of the university. Students should contact the Office of Sponsored Programs to obtain appropriate forms and further information.

Animal Subjects: It is university policy that: 1) the proper care and management of laboratory animals is essential to the welfare of the animals, to the validity of research data, and to the health and safety of those caring for or using animals; and 2) the university will comply with federal and state regulations regarding animal welfare. All animal protocols involving vertebrate animals (including farm animals and wild animals) conducted at, funded through or sponsored by UNLV must be submitted for prior Institutional Animal Care and Use Committee (IACUC) review and periodic review after approval in accordance with university policies and procedures that are required by federal law.

The provision for the protection of animal subjects in research applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff. It also applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff. It also applies to persons unaffiliated with UNLV, who wish to investigate subjects under the protection of the university. Students should contact the office of Sponsored Programs to obtain appropriate forms and further information.

UNLV Student Computer Use Policy

Public computer laboratories and mainframe computers are provided as a service to students. Use is a privilege, not a right. Users should be good citizens; they must refrain from doing anything that annoys others or disrupts the educational experiences of their peers. Failure to comply with the regulations below may result in suspension under the NSHE Code, or civil or criminal action under the Nevada Revised Statutes, or federal law. It is a violation of UNLV policy to:

1. Copy any copyrighted software provided by UNLV. It is a criminal offense to copy any software protected by copyright, and UNLV will treat it as such.
2. Use licensed software in a manner inconsistent with the licensing arrangement. Information on licenses is available at the tutor stations or through NSHE Computing Services.
3. Copy, rename, alter, examine, or delete the files or programs of another person or UNLV without permission.
4. Use a computer to annoy others, including, but not limited to, sending offensive messages or knowingly causing a system to crash.
5. Create, disseminate or run a self-replicating program (virus), whether destructive in nature or not.
6. Use a computer for non-university work, such as for a private business or non-UNLV sanctioned club.
7. Tamper with switch settings or do anything that could damage terminals, computers, printers, or other equipment.
8. Collect, read, or destroy output other than your own work without the permission of the owner.
9. Use the computer account of another with or without permission unless it is designated group work.
10. Use software in the lab not owned by UNLV unless the student is the legally licensed owner.
11. Continue to use a computer account after withdrawing from the class for which it was obtained.
12. Access or attempt to access a host computer, either at UNLV or through a network, without the owner's permission, and/or through use of log-in information belonging to another person.

Student Use of Hazardous Materials

Certain courses may require students to work with potentially hazardous materials in the lab, darkroom, or workshop. Instructors will provide instructions regarding the safe handling of all materials. Questions should be directed to the specific academic department or instructor.

Degree Progression Policies & Procedures

Degree requirements are usually completed under the policies and regulations listed in the Graduate Catalog in effect at the time of admission. However, and with departmental and Graduate College approval, the Graduate Catalog in effect during the semester in which degree requirements are completed may be used. All students seeking an advanced degree must adhere to the regulations discussed in this section. With Graduate College approval, departments may have additional specific degree

requirements that students must meet to receive an advanced degree.

Forms

All students are responsible for submitting the proper forms to the Graduate College as he or she progresses through their degree program. Failure to do so may cause a delay in the student's graduation.

The Advisor

Students are assigned an advisor by their graduate program at the time of admission into the Graduate College. The advisor is typically selected by the department from among its Graduate Faculty; after which, if required by degree program, it is the responsibility of the student to personally select an advisor to serve as chair of his or her advisory committee. At any time after admission, a student may request a change of advisor and, upon departmental recommendation and Graduate College approval, the advisor will be changed.

The Advisory Committee

The advisory committee is responsible for guiding the student through the graduate program, assisting with the thesis or dissertation (if required), and administering the final examination. Not all graduate degree programs require the appointment of an advisory committee. Students should consult with their advisor to determine whether or not an advisory committee is necessary. All members of the committee should have expertise in the student's area of concentration. Generally, four Graduate Faculty members comprise an advisory committee: three from the student's department and one graduate faculty member from another department to serve as the Graduate College representative. One of the three graduate faculty members from the department serves as the student's advisor and committee chair. The Graduate College must approve the Graduate College representative suggested by the student and advisor to serve on the committee. Occasionally, it is permissible for an additional graduate faculty member(s) to be placed on the committee. This exception requires the approval of the Graduate Dean. Master's and doctoral students must submit the Appointment of Advisory Committee form to the Graduate College before establishing the degree program.

The Degree Program

Students, with their advisor and advisory committee, must prepare a proposed graduate degree program. This degree program, which outlines the courses the student will complete for the degree, should be thoughtfully prepared. The degree program of study must comply with the regulations of the graduate program or department, Graduate College, and university. The degree program requires the approvals of the student, advisor, the graduate coordinator, the appropriate academic dean, and the Graduate Dean.

For master's students, the proposed graduate degree program must be submitted to the Graduate College prior to students completing 16 credit hours of work toward the degree. If students request that 12 or more credit hours taken prior to admission be considered for use toward the degree, the program must be submitted to the Graduate College by the sixth week of the first semester of enrollment. Doctoral students must submit the proposed graduate degree program by the end of the third semester of enrollment. By recommendation of a student's department, limited changes in the degree program may be made with Graduate College approval.

Final Research/Creative Documents

The most important component of graduate education is the student's culminating experience. This generally takes the form a final scholarly research project, a professional paper, a course, an exam and sometimes a defense. The culminating experience demonstrates the student's mastery of their research, scholarship, creative abilities, and/or written communication skills in the chosen discipline. The final document is intended to benefit the student, the academic discipline or profession, and sometimes, society.

Final documents, including theses, dissertations, professional or scholarly papers, and projects must meet acceptable standards of the given profession. Theses and dissertations must also meet Graduate College standards according to *The Guide to Preparing & Submitting a Thesis or Dissertation*. The Graduate College and advisory committees expect students to give careful attention to the style and format of the final scholarly or creative documents.

Students required to complete and defend a final research or creative document must submit the Prospectus Approval Form to the Graduate College along with a brief written statement describing the content of the document. The Graduate College requires students working on a final research or creative document to register for three semester hours of credit each semester (excluding summer) until the document has been completed and has been given final approval. Students should contact the department to determine which document is required to complete their degree program.

Thesis and Dissertation

Some departments require a thesis, or offer the option of a thesis, for the master's degree. All academic doctoral programs require a dissertation. Students must submit the Prospectus Approval form to the Graduate College at the same time the degree program is submitted for master's students and to advance to candidacy for doctoral students. The thesis or dissertation should demonstrate the student's ability to select a specific problem or topic, to assemble pertinent and necessary data, to do original research, to organize ideas and data acceptably, and to prepare a written report in clear and effective English. *The Guide to Preparing & Submitting a Thesis or Dissertation* is available on the

Graduate College website. Students must follow the instructions in the guide. Matters of form with respect to capitalization, abbreviation, quotations, footNote: and bibliography should conform to the discipline's standards. Departments will advise the student on which style manual is appropriate.

The minimum number of thesis credits required for a master's degree program is six. For the doctoral degree program, the minimum number of dissertation credits required is twelve. A grade is not reported for thesis or dissertation credits. When the final copy of the thesis/dissertation are submitted electronically to the Graduate College and approved by the Graduate Dean, the title of the thesis/dissertation is posted on the student's transcript with the number of credits given. Unless approved for a leave of absence, a student must register for a minimum of three thesis/dissertation or non-thesis/dissertation credits each semester (summer excluded) until the thesis or dissertation is completed, submitted to the Graduate College, and the student graduates. However, students intending to complete, defend, submit a thesis or dissertation to the Graduate College, and/or graduate during the summer term, must be registered for a minimum of three credits. It is strongly suggested that no later than eight weeks prior to the last day of instruction in the term the student will graduate, a draft of the work should be submitted to the advisory committee. The committee will review the thesis or dissertation for any corrections and changes, which must be incorporated before the final examination (oral defense) and final typing. The completed, unbound work must be resubmitted to the committee at least one week prior to the final examination. The Graduate College must approve all theses and dissertations for final electronic submission. It is recommended that an initial format check be performed by the Graduate College by the eighth week of the semester the student intends to graduate. Upon approval, the thesis or dissertation must be submitted electronically to the Graduate College not later than two weeks prior to the end of instruction of the term the student intends to graduate. All members of the advisory committee must approve the thesis or dissertation for submission to the Graduate College. The Graduate Dean only can give permission for an extension of this deadline.

In rare circumstances a student may be permitted to complete the thesis or dissertation away from campus. After considerable progress has been made in collecting data and outlining the work, the student may petition to complete the thesis or dissertation in absentia, waiving the registration requirement. If the petition is approved, the advisor and Graduate Dean along with the student will determine the requirements for completion of the work.

Professional or Scholarly Papers or Projects

Master's students not pursuing a thesis option may be required to complete a professional/scholarly paper or project as part of the degree program. Students are

encouraged to use *The Guide to Preparing & Submitting a Thesis or Dissertation* available in the Graduate College when preparing a professional paper. Professional/scholarly papers or projects are not, however, reviewed, retained, or approved by the Graduate College. Some graduate programs require students doing a professional paper to have a graduate committee and to defend their work; other departments incorporate final papers into culminating experience courses or have other requirements. Please check with your department for detailed guidelines.

Graduate Program Examinations

There are three major examinations which students may be required to pass in order to complete a graduate program. The following descriptions are general and may be used interchangeably by departments or programs. For the application of these terms and their use by a particular department or graduate program, refer to the appropriate section of this catalog.

Qualifying Examinations

Some departments may require doctoral students to take a qualifying examination as part of the admission screening process or for diagnostic purposes shortly after admission. The examination may be written, oral, or both.

Comprehensive and Final Examinations

Most graduate degree programs require students to successfully complete one or more comprehensive or final examinations. For master's students, the comprehensive, or final, examination is generally conducted during the last semester or term of enrollment in which a student intends to graduate. For doctoral students, the comprehensive, or preliminary, examinations are generally taken after all course work, other than dissertation credits, has been completed and before advancing to candidacy. The examination is intended to test the student's knowledge of the area of specialization and may be written, oral, or both at the discretion of the department. If the examination is written, members of the advisory committee may submit questions, all must read the questions in advance, and all must read and evaluate the student's answers. If oral, all members of the advisory committee must be present and may question the student.

The comprehensive, final, or preliminary examination must be administered at least three weeks before the last day of instruction of any given semester or term. Students must be enrolled for at least one graduate-level credit during the semester or term the comprehensive or preliminary examination is taken. For comprehensive and final examination requirements, contact the department or refer to the appropriate section of this catalog. In the examination, the student must be able to demonstrate a comprehensive understanding of a broad field of study and a detailed understanding of one or more specialized fields of expertise. The advisory committee must unanimously pass the student.

If the committee votes unanimously to fail the student or the vote is not unanimous to pass, the student, in consultation with his/her advisor, may request the committee to administer a second examination. The student must wait at least three months before taking the second examination. The advisory committee must provide formal documentation to the student clearly indicating its decision.

Oral Defense

Graduate students completing a thesis or dissertation are required to demonstrate their ability to select a specific problem or topic, to assemble pertinent and necessary data, to do original research, to organize ideas and data acceptably, and to prepare a written report in clear and effective English. This demonstration takes the form of an oral defense of the finished document. For some master's and specialist students, completing a professional/scholarly paper or project an oral defense may be required. All members of the advisory committee must be present and may question the student.

The oral defense must be held at least three weeks before the last day of instruction in the term in which the student plans to complete the degree requirements. It may be conducted before that term only with the Graduate Dean's permission. Students must be enrolled during the term the oral defense is conducted.

Satisfactory performance on a final examination will consist of a presentation and defense of the student's original thesis or dissertation research. At a minimum, the defense consists of an oral presentation to university graduate faculty and a closed deliberation and vote by the advisory committee. The oral presentation will be open to UNLV Graduate Faculty, graduate students, relevant administrators, and invited guests. The invited guests must be approved by the advisory committee chair prior to the defense.

The oral presentation may be followed by general questions of clarification from attendees [other than the advisory committee members]. The advisory committee and chair may choose to include a session of more in-depth questioning open only to the advisory committee and the UNLV Graduate Faculty. An additional phase of questioning with only the advisory committee and candidate may also be included. The final phase of closed deliberation, and the vote to pass or fail the student, will only be open to the student's appointed advisory committee.

The Graduate College must be notified not less than two weeks in advance of the examination. A public announcement regarding an oral defense must be made to the appropriate department's graduate faculty a minimum of seven (7) days prior to the oral defense.

During the oral defense, the student must be able to demonstrate a comprehensive understanding of a broad field of study and a detailed understanding of a more limited field. The advisory committee must unanimously pass the student. If the committee votes unanimously to fail the student or the vote is not unanimous to pass, the student, in

consultation with his/ her advisor, may request the committee to administer a second examination. The student must wait at least three months before taking the second examination. The department may require additional course work, substantial reworking of the thesis, dissertation, or professional/scholarly paper or project or whatever is believed necessary to prepare the student for the second examination. The Graduate College will not approve third examination requests.

Advancement to Candidacy

The Graduate College designates the advancement to candidacy status for doctoral students only. Doctoral students are advanced to candidacy upon successful completion of all course work, passing the comprehensive examination, and completing the dissertation prospectus. The date of advancement is recorded on the students' official UNLV transcript.

Graduation Procedures

Application for Graduation

Students are responsible for applying for graduation by the semester deadline. Doing so triggers your graduate evaluator to review your file and make sure that everything is in order for you to graduate. The graduation application is available for downloading on the Graduate College website. The application form must be signed and returned to the Graduate College by the deadline posted on the Graduate College website. Applications for graduation will not be processed unless all required forms and documents have been submitted to the Graduate College including degree program, and if required the prospectus approval, appointment of advisory committee, and for doctoral students the advancement to candidacy form. If students do not complete the degree requirements in the term anticipated, it is expected that they will do so in the next regular term (summer excluded). A new application for graduation must be filed, and an additional diploma fee will be charged. In addition, students must be enrolled in a minimum of 3 credits during the term they apply for and expect to graduate.

Granting of Degrees

Degrees are awarded three times a year in May, December, and August. Students must be enrolled in a minimum of 3 credits during the term they intend to graduate. When students apply for graduation, the Graduate College reviews the degree program. The Graduate Dean certifies that they have met degree requirements and a recommendation is forwarded to the Board of Regents. If any requirement has not been met, the degree will not be awarded. The degree will be revoked if it is awarded in error, or if it is later discovered that the degree requirements were not met, or if fraudulent claims are later discovered.

Commencement

Students may not participate in commencement prior to completion of all degree program requirements. Commencement is held twice a year in May and December. August graduates may participate in the December commencement following the completion of degree requirements.

Tuition & Fees

Fees: All fees assessed by the university are subject to change by the Board of Regents. Every effort is made to keep fees 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.

Graduate Tuition and Fees*

*The fees listed below are applicable to Fall 2009 and Spring 2010.

Graduate Per Credit Hour Fee	\$217.25
Non-Resident Graduate Fees:	
1-6 credits	\$457.25 per credit hour
7 or more credits	\$6170.00 per semester +\$217.75 graduate per credit hour fee
Good Neighbor Graduate Fee	\$457.25 per credit hour
Other Fees	
Graduate and Professional Student Association	\$18.00 per semester
International Education	\$2.00 per semester
Rebel Recycling	\$1.00 per semester
Student Health	\$70.00 per semester
Technology	\$4.00 per credit hour
Student Life Facilities	\$173.00 per semester for 4 or more credits
International Student (international students only)	\$145.00 per semester
Integrate	\$3.00 per credit
New Graduate Student Orientation	\$35.00

Nonresident Tuition

Students who are not Nevada residents must pay a nonresident tuition fee in addition to the per credit hour fees per semester. Nonresident students taking less than seven credits should contact the Admissions Office for up-to-date fee information. Students eligible under Good Neighbor regulations pay a reduced nonresident tuition fee in addition to the per credit hour registration fee per semester.

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.

Nevada Residency for Tuition Purposes

Residency Decisions

The Board of Regents establishes Nevada residency for tuition purposes regulations. For admitted degree-seeking graduate students, residency status is determined at the time of admission to a degree-seeking program and is indicated in the official Letter of Admission from the Graduate College. Non-degree-seeking graduate students will generally be classified as out-of-state until and unless Nevada residency is determined via the residency application process. If the residency status is not "Nevada," out-of-state tuition will be assessed. Residency decisions are made during the application process and will be posted on the admission acceptance letter.

Qualifying for Nevada Residency

The following categories qualify for Nevada resident status:

1. A member of the Armed Forces of the United States
2. Full-time licensed personnel employed by a public school district in Nevada
3. A teacher who is currently employed full time in Nevada
4. A professional or classified employee of the University and Community College System of Nevada
5. Company relocation (also applies to spouse and children)
6. Family relocation to the state
7. Millennium scholarship recipients
8. A student who has lived in the state for a period of 12 months

Applying for Nevada Residency

To apply for residency, download and complete the Residency Application and include photocopies of supporting documents. Mail or fax documentation to the Office of Admissions by the application deadline listed in the Academic Calendar and Registration Guide. Residency review for fall applications begins June 1; spring review begins Nov. 1.

Good Neighbor Regulations for Reduced Nonresident Tuition

Students who claim residence for at least 12 months in a qualifying Arizona or California county, or graduates from a high school or community college in a qualifying Arizona or California county may be eligible to attend the university at a reduced tuition cost. Those claiming residency for 12 months must have maintained legal bona fide residence for

at least 12 consecutive months prior to the first day of the semester in which enrollment is sought. Applications are available online or in the Graduate College. Requests for Good Neighbor status must be filed by the close of late registration for the semester in which the student has applied for admission. Any student who enrolls under this policy shall not be eligible for reclassification as a resident student unless the student has subsequently enrolled as a non-Good Neighbor nonresident for the period of one year, or did not enroll in an Nevada System of Higher Education institution for at least 12 months immediately prior to the date of application for reclassification to resident student status.

Approved Good Neighbor Counties:

Alpine
El Dorado
Inyo
Lassen
Modoc
Mono
Nevada
Placer
Plumas
San Bernardino
Sierra Counties

Special Fees and Charges

An application fee of \$60 (domestic) is charged to any person applying for admission. It is not refundable or applicable to any other fee. International applicants must pay an additional \$15 evaluation fee (\$75.00 total). Special charges may be made according to current costs for the following:

- a. Courses requiring equipment, facilities or materials not available on the campus, i.e., golf and certain field courses.
 - b. Courses requiring use of high technology equipment, e.g., computer courses or health profession courses.
 - c. Private instruction in music and similar arts
 - d. Noncredit courses, conferences, workshops, postgraduate professional seminars and similar educational offerings.
 - e. Courses requiring field trips or travel.
 - f. Personal expenses incurred by students in connection with field trips.
 - g. Lab and computer usage fees.
3. The following fees are either assessed or identified at registration.
- a. A late registration fee of \$25 per day to a maximum of \$250 is assessed to students who do not complete registration by the date designated. 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 Registrar may defer the assessment of this fee for one day.

- b. Returned Check Fee. Personal checks are accepted in 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 a bank. The check must be made good within 10 days or it will be turned over to a collection agency, and the student will be liable for all collection costs and any other related costs. If a personal check is returned from the bank, the university reserves the right to place the student on a cash basis only and 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 processed as returned checks and are subject to the same fees and collection cost.
- c. A graduation fee of \$50 will be billed to the student's account after the application for graduation is filed in the Graduate College. If a student fails to meet graduation requirements after a diploma has been ordered, \$2.50 of the fee is forfeited.
- d. Late application for graduation, \$20.
- e. A fee of \$55 for Master Thesis publication and \$65 for Doctoral Dissertation publication will be billed to the student's account after the application for graduation is filed.

Student Health Fee

The Student Health program fees for Fall, Spring, and Summer semester classes are not to be confused with the voluntary Student Health Insurance plan. Program fees support various services offered by the Student Wellness Cluster.

The Student Health program facilitates on-campus educational experiences and leadership opportunities for all UNLV students; is responsible for public health protection of the UNLV community; provides access to health care and provisions or coordination of health needs for students; provides student counseling and psychological services; and includes the Jean Nidetch Women's Center.

Group Health and Accident Insurance Fee

The Student Health Insurance plan is available to students formally admitted and currently enrolled taking six or more undergraduate credits or graduate students taking three or more credit hours. This plan is not to be confused with the student health program fee that all registered students pay for fall, spring, and summer sessions.

The Student Health Insurance provides services beyond those available through the Student Health Center for eligible on and off campus medical services. You may sign up for the Student Health Insurance by picking up an enrollment packet at the Student Health Center or Bursar's Office prior to the beginning of Fall, Spring, and Summer sessions or by accessing the web.

Grants-in-Aid

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 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.

Delinquent Accounts

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.

Deferred Payment Option

Deferred payment is available to students who are registered for seven credits or more and are not receiving any sort of financial aid, grant-in-aid, etc. There is a \$20.00 service charge for all deferred fee payment plans. The \$20.00 service charge plus 50 percent of the per credit fee, nonresident tuition (if applicable), and 100 percent of special fees are due by the first installment date. Second installment is due by Friday of the fourth week of instruction. Failure to pay the second half of the deferred payment on schedule will constitute withdrawal from the university. The tuition will still be owed, but the student will not receive credit for the courses. Any delinquent accounts may be reported to a credit bureau. All delinquent accounts not paid as required will be sent to a collection agency. The student is responsible for all collection costs, attorney fees, etc. All students must pay their tuition in full at registration or be on an approved deferred payment to be considered enrolled for the semester. All unapproved accounts will be disenrolled. No exceptions. The university reserves the right to deny deferred payment to any student who does not pay tuition and fees as scheduled, including late fees.

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 Student Enrollment Services or the Fee Appeal Committee. An appeal form is available at Student Enrollment Services, Cashier's Office or the Bursar's 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.

100 percent credit of all fees.

B. AFTER THE FIRST WEEK OF THE INSTRUCTIONAL PERIOD OF A REGULAR TERM.

*50 percent credit for total withdrawals from all courses until the end of the sixth week. No credit for total withdrawals after the end of the sixth week.

* 0 percent credit for partial withdrawals.

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 Student Enrollment Services, 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 Student Enrollment Services for details regarding a particular modular course's refund policy.
5. Upon written approval of the Vice President for Student Life, a full refund of all registration fees and tuition shall be given upon official withdrawal at any time during the first eight weeks of the semester in the following circumstances:
 - A. Induction of the student into the U.S. Armed Forces;
 - B. Death of a parent, spouse, child or legal guardian of the student; or
 - C. Death of a student.
 - D. No refund is made if withdrawal is after eight weeks, regardless of the circumstances. All refunds are made by check.
6. In most 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.

Financial Assistance

The University of Nevada, Las Vegas subscribes to the following statement that has been adopted by the Council of Graduate Schools in the United States and by most of the leading graduate schools in North America:

Acceptance of an offer of a graduate scholarship, fellowship, traineeship, or graduate assistantship for the next academic year by an actual or prospective graduate student completes an agreement which both student and the graduate school expect to honor. In those instances in which the student indicates acceptance prior to April 15 and subsequently desires to change plans, the student may submit in writing a resignation of the appointment at any time through April 15 in order to accept another scholarship, fellowship, traineeship, or graduate assistantship. However, an acceptance given or left in force after April 15 commits the student not to accept another appointment without first obtaining formal release for that purpose. It is further agreed by the institutions and organizations subscribing to the above resolution that a copy of this resolution should accompany every scholarship, fellowship, traineeship, and assistantship offer sent to a first-year graduate student before April 15.

Student Financial Services

The University of Nevada, Las Vegas provides a wide variety of assistance to finance higher education expenses. Grants, scholarships, part-time employment, and educational loans are available to help students with educational costs while attending UNLV. Students are encouraged to explore all possible resources. Financial Aid Administrators are available to discuss the variety of resources available and to assist graduate students in the application process. For further information, contact Graduate Student Financial Services at (702) 895-5569 and UNLV Student Financial Services, located in the Student Services Complex, at (702) 895-3424. The Graduate Student Financial Services office is located in the Graduate College on the 3rd floor of the Flora Dungan Humanities Building.

Federal Loan Programs

Federal Perkins Loans

A Federal Perkins loan is a low-interest (5 percent) loan available to graduate students that is made through the university. Actual award amounts depend on federal and institutional funding levels. Preference is given to those applicants who are attending at least half time and have the greatest financial need. The total amount awarded is determined by financial need.

Application must be made with the FAFSA, which must be mailed to the federal processing center by February 1. Priority is given to those with the greatest need whose

federal financial aid information is received by UNLV before the priority filing date.

Federal Direct Stafford Loans

Direct Stafford loans are low interest loans to assist you in paying for your college education. The interest rate is variable and set annually, not to exceed 8.25 percent. You may call Student Financial Services or contact the Federal Aid Information number at 1-800-433-3243 for the current interest rate. Your loans may assist you in meeting your tuition and or living expenses. You do not have to start repaying them until you drop below half-time enrollment, withdraw completely from school, or graduate.

There are two types of Stafford loans:

- a. The Federal Direct Subsidized Stafford Loan is based on financial need. Interest on this loan is paid by Federal taxpayers while you are in school attending at least half-time.
- b. The Federal Unsubsidized Loan is available to students regardless of financial need. You will be charged interest from the time the loan is disbursed until it is paid in full.

Graduate Assistantships

A number of state-supported and extramurally funded graduate assistantships are available. The most important regulations governing these positions are:

1. Applications must be sent to the department which you are seeking employment no later than March 1 proceeding the fall semester in which an assistantship is sought. Applications may be submitted after this date in case of unexpected openings occurring for the fall semester. In rare cases where an assistantship is available for the spring semester, the application deadline is November 15th.
2. Application forms are available from the Graduate College Office and on our website.
3. An assistantship is normally offered for a full academic year. If a student seeks renewal of an assistantship for the next year, a new application form must be submitted.
4. Currently, a graduate assistantship carries with it a stipend paid monthly for the academic year. This stipend may vary for extramurally funded assistantships. Tuition waivers are also included with the assistantship. These waivers are approved only for work directly related to the student's degree program (courses numbered 500 and approved for graduate credit and 700-level courses). This waiver covers a significant portion of the per credit hour fee. The tuition waiver covers the full amount of out-of-state tuition. Tuition waiver amounts may vary or extramurally funded assistantships.
5. Graduate assistantships are not generally available during Summer Term. However, tuition waivers are available for Summer Term before and after a contract year has been completed. Tuition waivers are not

available for undergraduate or audited courses. The above policies may differ for extramurally funded assistantships.

6. Graduate assistants must have graduate standing status at the time they begin their assistantships.
7. International students whose graduate assistantship includes instructional duties (lecture, discussion groups, laboratory supervision, tutoring) must have received a successful grade on the Test of Spoken English (TSE) prior to assuming these instructional duties.
8. Graduate assistants must carry a minimum of six semester hours of graduate credit per semester. To carry more than twelve semester hours of credit, the department chair, academic dean, and the Graduate Dean must approve an Overload Petition.
9. Graduate assistants are expected to spend on the average 20 hours per week on departmental duties in either instruction and/or research.
10. Graduate assistants may not accept employment on or off campus without written permission from their faculty advisor, department chair, and Graduate College Dean. Graduate assistants are normally prohibited from being employed for more than 10 hours per week beyond their assistantship.
11. Graduate assistants are expected to report in the same time-frame as faculty, i.e., during academic semesters and not during break or vacation times. Graduate Assistants must report one week prior to commencement of classes both fall and spring semester. Exceptions to this statement may be negotiated at the time of employment; however, both parties must agree to the arrangement and approval must be obtained from the Chairperson, Academic Dean and Graduate Dean.
12. New graduate assistants are expected, as part of their contract obligation, to attend the Graduate Assistant Teacher Training and General Orientation Sessions that are offered at the beginning of each fall semester.
13. Graduate assistantships will be terminated if the student does not satisfactorily perform assigned duties. Assistantships will also be terminated if a student does not make satisfactory progress toward the degree. Unsatisfactory progress includes, but is not limited to: filing a degree program late; receiving a grade of less than B; failing to remove an Incomplete grade after one calendar year; and failing comprehensive or qualifying examinations as required by the degree program.
14. Offers of assistantships, whether state-supported or extramurally funded, are valid only if they come from the Graduate College Dean.

Graduate Scholarships and Fellowships

Updates on fellowship and scholarship information are available on the Graduate College website.

For New Students: McNair Post-Baccalaureate Scholarships

McNair Post-Baccalaureate Scholarships, administered by the Graduate College, are awarded in open competition to first-year graduate students who participated in a McNair Scholars program at UNLV or at another institution as an undergraduate.

To be considered, applicants must:

1. Have an undergraduate GPA of 3.0 and graduate standing status at the time the scholarship begins.
2. Enroll in a minimum of nine credit hours for two consecutive semesters.

For Current Students: The following fellowships and scholarships are only available to graduate students already admitted to the Graduate College.

President's Graduate Fellowships

The President's Graduate Fellowships are provided through funding from the UNLV Foundation as directed by UNLV's president for the research support of doctoral students. Up to three awards are given annually, each offering a fellowship package including a stipend, tuition (up to 12 credits), fees, and health benefit totaling \$24,000.

Nominees must:

- Be doctoral students working primarily on the dissertation.
- Have a minimum graduate GPA of 3.5.
- Hold full-time student status (at least nine graduate credits) in each semester of the fellowship year.

Nominations must be submitted through department chairs. (Only one letter of nomination may be submitted from each department.)

Barrick Graduate Fellowships

Barrick Graduate Fellowships were established by an endowment from philanthropist Marjorie Barrick. They are given to outstanding doctoral students who have demonstrated excellent scholarship during their graduate study at UNLV. Two awards are given, each offering a \$14,000 fellowship with full fees paid (up to 12 credits), including all out-of-state tuition, if applicable.

Applicants must:

- Be a doctoral-level student.
- Have completed at least 24 credits of doctoral study (at the time of application).
- Have a minimum graduate GPA of 3.5.
- Enroll as a full-time graduate student (at least nine graduate credits) in each semester of the fellowship year in order to devote maximum effort to doctoral study. Criteria for selection will also include demonstrated excellence in research.

Scholarships

Alumni Association Scholarships are awarded to outstanding master's students who received their undergraduate degrees from UNLV. Three awards are given, each offering a \$1,000 scholarship for the academic year.

Applicants must:

- Be a master's-level or specialist student.
- Have completed at least 12 credits of graduate study at UNLV (by the end of the current spring semester).
- Have minimum UNLV undergraduate and graduate GPAs of 3.5.
- Enroll in six or more graduate credits in each semester of the scholarship year.
- Hold an undergraduate degree from UNLV.

James F. Adams/GPSA Scholarships. The UNLV Graduate & Professional Student Association established these scholarships in honor of Dr. James F. Adams, former dean of the Graduate College (1980-85), to recognize academic achievement of master's-level students. Six awards are given, each offering a \$1,000 scholarship.

Applicants must:

- Be a master's-level or specialist student.
- Have completed at least 12 credits of graduate study at UNLV (by the end of the current spring semester).
- Have a minimum graduate GPA of 3.5.
- Enroll in six or more credits in each semester of the scholarship year.

Summer Session Scholarships are designed to enable summer study for doctoral students, however excellent master's and specialist's students may be considered. Ten awards are given, each offering a \$2,000 scholarship during the summer.

Applicants must:

- Have completed at least 12 credits of graduate study at UNLV (at the time of application).
- Have a minimum graduate GPA of 3.0.
- Enroll in six credits in any one or combination of summer sessions.

Criteria for selection will include summer plans for conducting dissertation or thesis research.

Employment

On-Campus Employment. Several campus departments and offices employ students in a variety of positions. These jobs can be viewed on the Student Financial Services website. On-campus employment listings are available to graduate students enrolled in at least five credits at UNLV. Financial need is not a criterion for on-campus employment.

Job Location and Development. Employment opportunities are offered to UNLV students by community businesses and

individuals. These jobs can be viewed on the Student Financial Services website. In addition to job listings, the JLD Program sponsors biannual Job Fairs where employers from businesses, government agencies, and hospitals, to name a few, come to campus to discuss part-time employment opportunities.

Federal Work Study. The Federal Work Study Program is a federally funded financial aid program awarded as part of the financial aid package. This program enables students to earn a portion of their college expenses through employment with a UNLV department or office or off campus with contracted nonprofit agencies.

Community service is a major goal of this program. If available, students may choose jobs related to their academic majors and career objectives. Work hours may also be arranged according to class schedules.

To qualify for a Federal Work Study job, applicants must meet the eligibility requirements of the federal financial aid programs. One requirement, financial need, is determined by Student Financial Services and based on income and asset information entered on the Free Application for Federal Student Aid (FAFSA) application.

Funds are limited. Therefore, applicants must mail the completed FAFSA application to the federal processing center by February 1. Questions concerning the eligibility requirements or application process may be directed to Student Financial Services, second floor, Student Services Complex.

Division of Health Sciences

The health issues facing our local, state, and national governments are complex, and the solutions will require research, innovation, and collaboration from individuals and agencies representing the full spectrum of health and wellness.

UNLV's Division of Health Sciences — along with other health science-related programs in the Nevada System of Higher Education — is addressing today's pressing needs and making tomorrow's discoveries.

The division is comprised of the schools of Dental Medicine, Nursing, Public Health and Allied Health. Guided by a mission that demands UNLV serves its community, the division is using research, education, training, and service to form unique public and private partnerships. These partnerships are helping provide quality health care to the underserved, educating future professionals, and exploring ways to improve the health and well-being our citizens. Taken together, UNLV is helping build a foundation for a healthier and more vibrant Nevada.

Division of Health Sciences Departments and Schools

School of Allied Health Sciences

Health Physics & Diagnostic Sciences
Kinesiology and Nutrition Sciences
Physical Therapy

School of Community Health Sciences

Environmental and Occupation Health
Health Care Administration and Policy
Health Promotion

School of Dental Medicine

School of Nursing

School of Allied Health Sciences

The School of Allied Health Sciences provides undergraduate and graduate education to students interested in studying one of the many different health sciences curriculums. The curricula are designed to prepare students to readily assume health-related employment opportunities or continue on with further graduate or professional studies. Educational experiences include rigorous classroom instruction, laboratory/clinical practice (on and off campus sites), research opportunities with faculty, and professional mentoring. It is a goal of the School of Allied Health

Sciences faculty to produce graduate students who are professionally competent, thoroughly 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.

Health Physics & Diagnostic Sciences

The Department of Health Physics emphasizes the environmental aspects of radioactivity, safety, environmental issues associated with radioactive waste disposal, and the use of photodynamic therapy to treat cancer. Graduate Degree in Health Physics.

Kinesiology & Nutrition Sciences

Provides a program of study in the science of human movement for students interested in the allied health professions. The Department is committed to an interdisciplinary approach to professional preparation and scholarship. Graduate degrees in Kinesiology and Exercise Physiology.

Physical Therapy

Physical therapy is considered a specialty area in the health care field that concentrates on the prevention of disability and the physical rehabilitation following injury or impairment. The goals of physical therapy are to help patients regain diminished physical function, which has been lost secondary to injury or disease, and to relieve pain. Doctor of Physical Therapy (DPT).

Health Physics & Diagnostic Sciences

Chair

Madsen, Steen
(1997), Associate Professor; B.S., University of Toronto; M.S., Ph.D., McMaster University.

Graduate Coordinator

Patton, Phillip
(2000), Associate Professor; B.S., Augusta College; M.S., University of Georgia; M.S., Ph.D., University of Florida.

Graduate Faculty

Cheney, Marcos A.
(2005), Assistant Professor; B.S., University of Baja California, Ensenada; M.S., Ph.D., University of California, Davis.

Hirschberg, Henry
(2006), B.E.E. City University New York; M.D., Ph.D., University of Oslo, Norway.

Riland, Carson A.

(1996); B.S. Bloomsburg University; M.S., Ph.D. Texas A&M University.

Sudowe, Ralf

(2006), Assistant Professor; Dipl.-Chem, Dr. rer. nat., Philipps Universität Marburg, Germany.

Many industries, medical facilities, and research laboratories demand professionals who understand radiation hazards, their prevention and control. Prominent among scientists is the health physicist, who controls the beneficial use of ionizing radiation while protecting workers and the public from potential hazards. Our M.S. program provides students with instruction and research opportunities in the field of radiation protection with emphasis on environmental health physics, radioactive waste management, radiation dosimetry, medical physics, and medical health physics. The Department of Health Physics faculty look forward to working with prospective students in this challenging program of study.

Health physics is the profession dedicated to the protection of the individual, the population, and the environment from the potentially harmful effects of radiation. It incorporates the principles and technical skills from many disciplines: physics, chemistry, biochemistry, biology, mathematics, ecology, toxicology, and industrial hygiene. The wide spectrums of knowledge required of the health physicist make this profession both challenging and rewarding.

The Master of Science (M.S.) in Health Physics is designed to prepare students in the field of health physics to administer public and private radiation health programs; investigate medical uses of radioactivity; measure and control radiation in the workplace and the environment; ensure compliance with radiation protection regulations; assist in the cleanup of radioactive and hazardous waste sites; evaluate worker, patient, and public radiation doses; and conduct research in radiation protection.

The Program Educational Objectives for the M.S. in Health Physics Program are as follows:

1. Graduates will demonstrate competency in applying the theoretical and problem solving aspects of health physics and related disciplines.
2. Graduates will demonstrate competency in the practical applications of health physics.
3. Graduates will effectively communicate technical information in both oral and written form.
4. Graduates will be competent in research methods and be able to critically review research with the intent of applying findings to their practice.
5. Graduates will be prepared to pursue a lifetime of selfdirected learning and professional development.
6. Graduates will conduct themselves in a professional and ethical manner. Follow this link for more information about the Division of Health Sciences.

Health Physics M.S.

Admission Requirements

Applications for admission may be obtained by contacting the Department of Health Physics or the Graduate College. Completed applications, official Graduate Record Examination (GRE) scores and one copy of official transcripts from all institutions attended after high school are submitted to the Graduate College. All other data (i.e., letters of recommendation and statement of professional goals) are submitted directly to the Department of Health Physics.

Students seeking admission to the graduate program in health physics must fulfill the following admission requirements:

1. Overall GPA of 3.00 (A=4.00 or equivalent) in undergraduate work. Applicants with a GPA below 3.00, but not less than 2.75, may be admitted as a graduate provisional student.
2. Successful completion (grade of C or better) of the following course work: a. Seven-semester credits in biology including an introductory modern biology course and one higher level course b. Ten-semester credits in chemistry or geology including a general chemistry sequence and one higher-level course c. Eight-semester credits in elementary calculus (mathematics through differential equations is recommended) d. Twelvesemester credits in physics including a general physics sequence e. A course in computer programming (an additional course in numerical methods or scientific computing is recommended) Applicants not meeting a limited number (maximum of nine credit hours) of prerequisite requirements may still be admitted to the program. However, prerequisite requirements may still be admitted to the program. However, prerequisite deficiencies must be completed during the first year of study and prior to registering for HPS 796 or 797.
3. Completion of a baccalaureate degree in health physics, one of the basic sciences, or in a closely related scientific or engineering field. Applicants holding a degree in a non-related field may be given special consideration if they have completed all prerequisite course work.
4. A composite score of 1,000 or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE).
5. Three letters of recommendation from former instructors or employers that speak to the applicant's potential as a graduate student. The individual writing the letter may use the form available from the Graduate College, which includes a release form for the student to sign.
6. A statement of approximately 300 words indicating the student's professional goals and reason for seeking graduate education.

- International applicants whose native language is not English must show competency in the English language before they can be admitted. A satisfactory score (minimum 550 on the written or 213 on the computerized version) on the "Test of English as a Foreign Language" (TOEFL) or comparable evidence of competency in English must be submitted by students as part of their application.

Progression

To progress in the program students must:

- Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
- Receive a grade of B (3.00) or above in all core health physics courses. If less than a B is earned, the course may be repeated. The student must be in good standing to repeat a course, and any core course may be repeated only once.
- A student may register for a course only twice. A student who registered for the same core course twice and has received a grade less than B is ineligible for readmission unless unanimously approved by Health Physics Program graduate faculty.
- Complete a minimum of six semester hours in each calendar year.
- Continuously register for three credit hours of: HPS 796 - Professional Paper or: HPS 797 - Thesis each semester while working on the thesis or professional paper until completion.

Advisement

The Health Physics Graduate Program Director will serve as academic advisor to all entering students for program planning. At the time the student selects his/her examination committee, the committee chairperson becomes the student's official advisor.

Graduation Requirements

Students in the M.S. in Health Physics Program must adhere to the following requirements for graduation:

- Residency Credits.** A minimum of 20 credits exclusive of thesis or special topic project must be earned at UNLV. A minimum of 15 credits must be accumulated within the School of Health and Human Sciences. Attendance at the University of Nevada, Reno does not interrupt, but does not contribute to, residency credits, because this institution is within the University and Community College System of Nevada.
- Credit by Challenge Examination.** Graduate courses in the Health Physics program may not be challenged for credit.
- Six-year Completion Rule.** All degree requirements must be completed within six calendar years from the date of matriculation. No credit may be used in an advanced degree program for course work completed more than six calendar years immediately preceding the term in which all degree requirements are completed.

- Allotment of Credits. Students have a choice of catalog under which they wish to graduate a) the year of official matriculation or b) the year of graduation. Students are encouraged to meet the requirements of the current catalog.
- A final oral examination will be held following completion of the thesis or professional paper resulting from a special topics project. The final examination must be held at least three weeks prior to the last day of instruction in the term in which the student plans to complete the degree requirements.

Degree Requirements

Requirements for the Master of Science in Health Physics include completion of 37 semester hours in required and elective graduate courses. These requirements will be established in consultation with the student's advisor in accordance with the Department of Health Physics and Graduate College policy and shall include:

- Health Physics Core (22 credits):**
HPS 602 - Radiation Detection ,
HPS 603 - Radiation Physics and Instrumentation Laboratory ,
HPS 620 - Radiation Biology ,
HPS 701 - Radiation Physics and Protection ,
HPS 718 - Radiochemistry Laboratory ,
HPS 720 - Radiation Dosimetry , and
HPS 791 - Graduate Seminar (three times)
- Electives (9 credits):** Graduate-level health physics or other approved graduate-level courses. It is recommended that electives include a statistics course and either the Environmental Health Physics or Medical Physics areas listed below:
 - Environmental Health Physics:**
HPS 670 - Environmental Health Physics ,
HPS 680 - Industrial Hygiene ,
HPS 750 - Radiation Risk Assessment
 - Medical Physics:**
HPS 740 - Medical Imaging Physics ,
HPS 742 - Radiation Therapy Physics
- Completion of a thesis or professional paper (6 credits):**
HPS 796 - Professional Paper or:
HPS 797 - Thesis .

Course Descriptions

HPS 602 - Radiation Detection
HPS 602 - Radiation Detection
HPS 603 - Radiation Physics and Instrumentation Laboratory
HPS 620 - Radiation Biology
HPS 620 - Radiation Biology
HPS 670 - Environmental Health Physics
HPS 670 - Environmental Health Physics
HPS 680 - Industrial Hygiene

HPS 680 - Industrial Hygiene

Note: The courses listed above have been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

HPS 701 - Radiation Physics and Protection

Credits 4

Atomic and nuclear structure; decay energetics and kinetics; interactions of radiation with matter; radiation protection standards; practical aspects of radiation protection; photon, neutron, beta and X-ray shielding; criticality; radiation protection at reactors, accelerators and medical facilities; radioactive material transportation regulations.

Prerequisites: BIOL 189, CHEM 122 and PHYS 182.

HPS 702 - Radiation Detection and Transport

Credits 3

Detection of ionizing radiation, counting statistics, and radiation transport modeling. **Prerequisites:** HPS 701, STA 161 or 491, or consent of instructor. Corequisite HPS 718

HPS 718 - Radiochemistry Laboratory

Credits 3

Laboratory experiments in radiation detection, counting statistics and radiochemical separations are discussed. The operation and calibration of alpha- and gamma-ray spectrometry equipment and liquid scintillation counters will be examined. Radiochemical separation and analysis of environmental samples are performed. Novel and standard procedures for sample examination will be covered.

Prerequisites: Consent of instructor. Corequisite HPS 602

HPS 720 - Radiation Dosimetry

Credits 3

Mathematical treatment of the fundamental principles of internal and external radiation dosimetry. Pathway models and bioassay techniques studied to support the calculation of radiation dose from the intake of radioactivity. General external dosimetry from a variety of industrial and medical sources is addressed. **Prerequisites:** HPS 701 or consent of instructor.

HPS 730 - Advanced Radiation Biology

Credits 3

Topics covered include: physics and chemistry of radiation absorption, cell survival curves, repair of radiation damage, radiation carcinogenesis, risk assessment models, cancer biology, model tumor systems, and dose fractionation in radiotherapy.

HPS 740 - Medical Imaging Physics

Credits 3

Conceptual, mathematical, and diagnostic aspects of commonly used clinical imaging modalities including film-screen radiography, computed tomography, magnetic resonance imaging, single photon emission computed tomography, positron emission tomography, and ultrasound.

Prerequisites: HPS 701 or consent of instructor.

HPS 740L - Diagnostic Medical Physics Clinical Rotation and Laboratory

Credits 3

Covers the quality control and assurance aspects of commonly used clinical diagnostic modalities including film-screen and digital radiography, mammography, computed tomography, magnetic resonance imaging, single photon emission computed tomography (SPECT), and positron emission tomography (PET). **Prerequisites:** HPS 701 Corequisite HHPS 740 or consent of instructor.

HPS 742 - Radiation Therapy Physics

Credits 3

Use of ionizing and nonionizing radiation in radiation therapy to cause controlled biological effects in cancer patients. Emphasis on external treatment techniques using photon and electron beams, internal treatment techniques, and treatment planning. **Prerequisites:** HPS 701 or consent of instructor.

HPS 750 - Radiation Risk Assessment

Credits 3

Descriptive and mathematical treatment of radionuclide transport, bioaccumulation, and human uptake. **Note:** : Risk analyses based on recent epidemiological studies reviewed.

Prerequisites: HPS 670 or consent of instructor.

HPS 760 - Environmental Restoration and Radioactive Waste Management

Credits 3

Overview of the cleanup and management of radioactive and mixed wastes in the federal and private sector. Role of radiation protection personnel in radioactive waste management activities discussed. **Prerequisites:** HPS 701 or consent of instructor.

HPS 772 - Environmental Radiation Measurements

Credits 3

Laboratory sessions provide practical experience with techniques to evaluate the presence of radioactivity in environmental media. Topics include environmental radiation sources, environmental monitoring plans, sample collection and analysis, in-situ gamma- ray spectrometry, data interpretation and laboratory quality control. **Note:** : One hour lecture and three hours laboratory. **Prerequisites:** HPS 670 and HPS 718 or consent of instructor.

HPS 781 - Industrial Hygiene II

Credits 3

Overview of the major physical and biological hazards in the industrial environment emphasizing recognition, monitoring technology, engineering control methodology, and best practice. **Prerequisites:** HPS 680 or consent of instructor.

HPS 791 - Graduate Seminar

Credits 1

Overview of research methods, ethics, professional development, and technical communications related to health physics. Students prepare and give seminars on topics of interest in health physics. **Note:** : May be repeated for a maximum of three credits.

HPS 795 - Independent Study

Credits 1 – 3

Individual directed study of a topic in health physics not covered in depth in other courses. **Note:** : May be repeated to a maximum of six credits. **Prerequisites:** Graduate standing in health physics and consent of instructor.

HPS 796 - Professional Paper

Credits 3

Discussion of the components of a research proposal, writing a research proposal, and conducting pilot projects. **Note:** : May be repeated but only six credits applied to the student's program. Grading S/F grading only.

Prerequisites: HPS 620, HPS 701, graduate standing in health physics, and consent of instructor.

HPS 797 - Thesis

Credits 3

Note: : May be repeated but only six credits applied to the student's program. Grading S/F grading only.

Prerequisites: HPS 620, HPS 701, graduate standing in health physics, and consent of instructor.

Health Sciences

HSC 777 - Advanced Applied Statistics for the Health Sciences

Credits 3

Application of advanced statistical procedures to the investigation of research problems in the health science professions. Emphasis on a conceptual understanding of selected advanced statistical techniques with application to the investigation and analysis of problems in the health sciences area. **Prerequisites:** Introductory course in statistics and introduction to research methodology course or consent of instructor.

Kinesiology & Nutrition Sciences

Chair

Young, John C.

(1991), Professor; B.S.Ed., M.S., University of Michigan; Ph.D., University of Wisconsin, Madison.

Graduate Coordinator

Tandy, Richard D.

(1989), Associate Professor; B.S., Appalachian State University; M.S., Ph.D., Texas A&M University.

Graduate Admissions Coordinator

Wulf, Gabriele

(2001), Professor; Diploma, Ph.D., Deutsche Sporthochschule Koln; Ph.D., University of Munich.

Graduate Faculty

Dufek, Janet S.

(2002), Associate Research Professor, B.S. University of Wisconsin, Superior; M.S. Illinois State University; Ph.D. University of Oregon.

Golding, Lawrence A.

(1976), Distinguished Professor; B.S., M.S., Ph.D., University of Illinois.

Guadagnoli, Mark A.

(1991), Professor; B.S., M.S., Texas A&M University; Ph.D., Auburn University.

Holcomb, William R.

(2001), Associate Professor; B.S. Berry College; M.S. U.S. Sports Academy; Ph.D. Auburn University.

Kruskall, Laura J.

(1999), Associate Professor; B.A. Mount Saint Mary College; M.S. Columbia University; Ph.D. Pennsylvania State University

Mangus, Brent C.

(1985), Associate Professor; B.S., Utah State University; M.S., University of Oregon; Ed.D., University of Utah.

Mercer, John

(1999), Associate Professor; B.S., Buffalo State College of New York; M.S., University of North Texas; Ph.D., University of Oregon.

Rubley, Mack

(2001), Assistant Professor; B.S., University of Colorado; M.S., Pennsylvania State University; Ph.D., Brigham Young University.

Kinesiology is the study of human movement as it relates to human performance. The graduate degrees offered by the Department of Kinesiology and Nutrition Sciences are designed to prepare students for advanced study in biomedical sciences, clinical positions, and leadership positions in instituting physical fitness programs in public and private organizations. The department is committed to an interdisciplinary approach to professional preparation and scholarship and to creating an environment in which

both basic and applied research in the field of kinesiology is stimulated. Comprehensive laboratories have been developed for the study of human performance, injury rehabilitation, and skill acquisition.

Students are afforded the opportunity to work closely with faculty in all areas of academics and research. The faculty are recognized internationally through their scholarship and research and are enthusiastically committed to graduate education.

Department of Kinesiology and Nutrition Sciences offers programs of study that lead to a Master of Science degree in Exercise Physiology or Kinesiology. These degree programs allow students a choice of preparation and opportunities to specialize in biomechanics, exercise physiology, motor learning/motor control and sports medicine. The goal of the graduate program in kinesiology is to provide students with the theory, knowledge, and skills necessary to apply the principles of human movement in a variety of community, research, clinical, or athletic settings, or to pursue advanced study at the doctoral level.

Exercise Physiology M.S.

The Master of Science in Exercise Physiology is designed to provide the student with an understanding of the physiological effects of exercise on the human body. The program also emphasizes the effect of regular exercise on adults and offers students experience in conducting physical fitness evaluations, and exercise testing. In addition, the graduate is prepared for entrance into a doctoral program in exercise physiology.

The program emphasizes academic preparation in exercise physiology, laboratory experience, knowledge of research methodology, and statistics. Students must complete a thesis in the general area of exercise physiology.

Admission Requirements

Students are admitted in the fall, spring, and summer semesters. Applicants for admission must have an undergraduate major in kinesiology, exercise science, physical education, athletic training, biology, nutrition, or a related academic discipline.

Applicants must have a minimum overall undergraduate grade point average of 2.75 (A=4.0), or 3.00 (A=4.0) in the last two years. The Graduate Record Examination must be taken prior to applying. Successful applicants generally have a 3.00 undergraduate grade point average and a combined score of 1000 on verbal and quantitative sections of the GRE and higher than 3.5 on the analytical section

Interested applicants must send the following information to the Graduate College:

1. A completed application for graduate studies.
2. Official transcripts of all colleges and universities attended.

Interested applicants must send the following information to the Department of Kinesiology:

1. Copies of all transcripts sent to the Graduate College.
2. Official GRE scores.
3. A letter of intent that addresses: Reason(s) for wishing to earn an advanced degree. Motivation for attending UNLV. Summary of educational goals. Summary of research activities and interests. Possible faculty mentors.
4. Two letters of recommendation from persons familiar with the applicant's academic record and potential for graduate study.

Degree Requirements

The Master of Science in Exercise Physiology requires a minimum of 33 credit hours. The curriculum for the M.S. in Exercise Physiology consists of the following courses:

Core Courses

- KIN 605 - Sports Nutrition
- KIN 738 - Human Physiology
- KIN 739 - Evaluation of Physical Working Capacity
- KIN 740 - Advanced Exercise Physiology

Research Tools

Electives

KIN 741 - Independent Study in Exercise Physiology I

or

- KIN 742 - Independent Study in Exercise Physiology II
- KIN 751 - Selected Application of Statistical Techniques I
- KIN 750 - Research Methods
- KIN 749 - Thesis

Kinesiology M.S.

The Master of Science in Kinesiology is designed for students interested in the study of human performance. Students are provided with the theoretical foundations of the movement-based sciences and select an emphasis in biomechanics, motor learning/control, or sports medicine. Through involvement in directed research projects, students obtain an in-depth understanding of laboratory equipment research and applications in the biomedical sciences. Graduates are prepared to make applications of the movement sciences in research, clinical or athletic settings and for entrance into doctoral programs in kinesiology.

Admission Requirements

Students are admitted in the fall, spring, and summer semesters. Applicants for admission must have an undergraduate major in kinesiology, exercise science, physical education, athletic training, biology, nutrition, or a related academic discipline.

Applicants must have a minimum overall undergraduate grade point average of 2.75 (A=4.0), or 3.00 (A=4.0) in the last two years. The Graduate Record Examination (GRE) is not required for admission except in cases where the department requests it be taken. Successful applicants generally have a 3.00 undergraduate grade point average and a combined score of 1000 on verbal and quantitative sections of the GRE and higher than 3.5 on the analytical section. Interested applicants must send the following information to the Graduate College:

1. A completed application for graduate studies.
2. Official transcripts of all colleges and universities attended.

Interested applicants must send the following information to the Department of Kinesiology:

1. Copies of all transcripts sent to the Graduate College.
2. Official GRE scores (when requested by the Kinesiology Department).
3. A letter of intent that addresses: Reason(s) for wishing to earn an advanced degree. Motivation for attending UNLV. Summary of educational goals. Summary of research activities and interests. Possible faculty mentors.
4. Two letters of recommendation from persons familiar with the applicant's academic record and potential for graduate study.

Degree Requirements

The Master of Science in Kinesiology requires a minimum of 33 credit hours. The curriculum for the M.S. in Kinesiology consists of the following:

Core Courses - Total Credits: 9

Students must complete one course from each of three areas: biomechanics, motor learning/motor control, exercise physiology.

Research Tools - Total Credits: 9

KIN 750 - Research Methods
KIN 751 - Selected Application of Statistical Techniques I

Specialization - Total Credits: 9

Research opportunities and course work are available in biomechanics, motor learning/motor control, and sports medicine. The individual student's program will be developed in consultation with the student's advisor.

Thesis Option - Total Credits: 9

Students electing to complete a thesis must complete KIN 749 and three credits of electives in consultation with their advisor.

Non-Thesis Option - Total Credits: 9

Students electing this option must complete KIN 748 and select six credits of electives.

Course Descriptions

CLS 612 - Clinical Immunology
 CLS 613 - Clinical Immunology Laboratory
 CLS 614 - Transfusion - Immunohematology
 CLS 615 - Transfusion Medicine Immunohematology Laboratory
 CLS 622 - Clinical Hematology I
 CLS 623 - Clinical Hematology Laboratory I
 CLS 624 - Clinical Hematology II
 CLS 625 - Clinical Hematology Laboratory II
 CLS 632 - Clinical Microbiology I
 CLS 633 - Clinical Microbiology Laboratory I
 CLS 634 - Clinical Microbiology II
 CLS 635 - Clinical Microbiology Laboratory II
 CLS 642 - Clinical Chemistry I
 CLS 643 - Clinical Chemistry I Laboratory
 CLS 644 - Clinical Chemistry II
 CLS 645 - Clinical Chemistry II Laboratory
 CLS 653 - Seminar in CLS IV
 CLS 681 - Clinical Practicum in Hematology
 CLS 682 - Clinical Practicum in Chemistry
 CLS 683 - Clinical Practicum in Immunohematology
 CLS 684 - Clinical Practicum in Microbiology
 CLS 685 - Advanced Clinical Practicum
 KIN 601 - History of Exercise and Sport Science
 KIN 605 - Sports Nutrition
 KIN 614 - Enhancing Mental and Motor Abilities
 KIN 615 - Introduction to Forensic Kinesiology
 KIN 685 - Physical Activity and the Law
 KIN 691 - Exercise Physiology
 KIN 692 - Clinical Exercise Physiology
 KIN 695 - Sports Medicine

Note: The 600-level courses listed above have been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

KIN 700 - Special Problems in Kinesiology

Credits 1 – 6

Specialized instruction and/or research designed to develop depth in understanding a current kinesiology problem. Note: May be repeated to a maximum of six credits.

Prerequisites: Consent of instructor.

KIN 730 - Organization and Administration of Athletic Training

Credits 3

Develop and utilize organization and administrative theories and philosophies in managing facilities, co-workers and students in a variety of athletic settings.

KIN 731 - Orthopedic Assessment in Sports Medicine

Credits 3

Theory and methods of orthopedic assessment as they relate to the understanding, evaluation, treatment, and rehabilitation of sport injuries. Emphasis on advanced understanding of the theoretical applications of advanced assessment techniques for orthopedic injuries.

Prerequisites: Consent of instructor.

KIN 733 - Psychological Aspects of Sport and Rehabilitation

Credits 3

Overview of theoretical concepts and techniques in sport psychology. Emphasis on the application of psychology to human movement, skilled athletic performance, and injury rehabilitation.

KIN 734 - Therapeutic Intervention in Sports Medicine

Credits 3

Theoretical background in the application of therapeutic intervention in a practical setting.

KIN 735 - Sports Medicine Rehabilitation Principles and Practices

Credits 3

Provides opportunity to study theory and techniques of various exercise rehabilitation processes and apply these processes on a case study basis. **Prerequisites:** Graduate standing and consent of instructor.

KIN 736 - Biomechanical Applications in Kinesiology

Credits 3

Provides opportunity to learn mechanical principles underlying human movement and apply these skills in a laboratory situation. **Prerequisites:** Graduate standing and consent of instructor.

KIN 737 - Biomechanics of Strength

Credits 3

Interdisciplinary examination of concepts and principles involved in strength development and force production. Includes study of neurological, physiological and mechanical factors affecting force/tension/power generation, and biomechanical interactions with external loads and various resistance training equipment. **Prerequisites:** Graduate standing or consent of instructor.

KIN 738 - Human Physiology

Credits 3

Study of mechanisms which regulate physiological systems and the way regulation functions to maintain homeostasis. Emphasis on those systems involved in the integrated response to exercise. **Prerequisites:** Consent of instructor, undergraduate course in anatomy and physiology.

KIN 739 - Evaluation of Physical Working Capacity

Credits 3

Concepts and methodology in the measurement of energy metabolism in humans. Examination of the various methods used to measure physical working capacity with the treadmill and ergometry. Understanding of basic electrophysiology of myocardium and pulmonary function measurements. **Prerequisites:** Consent of instructor.

KIN 740 - Advanced Exercise Physiology

Credits 3

Lecture, discussion, and laboratory experiences dealing with impact of acute and chronic exercise on several systems. Selected topics such as nutrition and exercise, weight control, physical working capacity, and body composition.

Prerequisites: KIN 739

KIN 741 - Independent Study in Exercise Physiology I

Credits 3

Individually arranged programs of in-depth study on selected topics in exercise physiology. Emphasis on respiratory gas analysis, human calorimetry, exercise electrocardiography, body composition, and physical work capacity. **Prerequisites:** Advanced graduate standing in exercise physiology and consent of instructor.

KIN 742 - Independent Study in Exercise Physiology II

Credits 3

Individually arranged programs of in-depth study on selected topics in exercise physiology. Emphasis on respiratory gas analysis, human calorimetry, exercise electrocardiography, body composition, and physical work capacity. **Prerequisites:** KIN 741

KIN 743 - Research Techniques in Biomechanics

Credits 3

Examination of some of the techniques used in biomechanical research for data collection, analysis, and presentation. Emphasis on developing an understanding of experimental techniques, their capabilities and limitations. The lecture/discussion/lab sessions provide a historical and theoretical basis for each of the techniques examined.

Prerequisites: Graduate standing or consent of instructor.

KIN 744 - Thermoregulation During Physical Work

Credits 3

Emphasizes physical mechanisms of heat transfer and their physiological control: relationship among body temperatures, sweat rate, exercise loads, environmental temperature, and heat stress. Same as (BIO 744)

Prerequisites: KIN 739 and consent of instructor.

KIN 745 - Human Energy Metabolism

Credits 3

Study of the interactions between nutrition, energy metabolism, and physical exercise. Emphasis on how the

body assimilates, stores, and makes available food energy to power muscular work. **Prerequisites:** KIN 739 or consent of instructor.

KIN 747 - Graduate Seminar

Credits 1

Oral presentations of proposed and completed research by graduate students, graduate faculty, and guests. Note: May be taken for credit to a maximum of four credits.

KIN 748 - Professional Paper

Credits 1 – 6

Note: May be repeated but only two credits will be applied to the student's program. Grading S/F grading only.

KIN 749 - Thesis

Credits 3 – 6

Note: May be repeated but only six credits will be applied to the student's program. Grading S/F grading only.

KIN 750 - Research Methods

Credits 3

Overview of techniques used in historical, descriptive, and experimental research such as those found in exercise science, health, physical education, and recreation research publications. Procedures for formulating a research proposal; hypothesis testing; experimental designs and statistical applications.

KIN 751 - Selected Application of Statistical Techniques I

Credits 3

Introduction to descriptive and inferential statistical procedures utilized in studies reported in exercise science, health, physical education, and recreation. **Prerequisites:** KIN 750

KIN 752 - Selected Application of Statistical Techniques II

Credits 3

Statistical analysis techniques including correlation and regression, anova, multivariate analysis, manova for repeated measures designs. Introduction to selected statistical software packages; computer-aided graphics and data presentation techniques. **Prerequisites:** KIN 751 or consent of instructor.

KIN 760 - Motor Learning

Credits 3

Advanced studies in motor behavior. Discussions of basic concepts and current perspectives. Note: Focus is on training methods that enhance the learning process.

Prerequisites: Consent of instructor.

KIN 761 - Human Motor Control

Credits 3

Advanced studies in motor control, including sensory and central contributions to movement control, coordination, balance, and attention.

KIN 762 - Motor Learning Applications

Credits 3

Designed to explain basic concepts of motor learning involved in organizing and scheduling practice for efficient learning/teaching of motor skills. Includes discussions of memory, feedback, stages of learning, and other motor learning principles.

KIN 791 - Independent Study in Biomechanics

Credits 1 – 3

Independent study of a selected topic in biomechanics. Note: May be repeated to a maximum of six credits. A maximum of six hours of independent study accumulated in KIN 790-795 may be counted towards a master's degree.

Prerequisites: Consent of instructor.

KIN 792 - Independent Study in Measurement & Evaluation

Credits 1 – 3

Independent study of a selected topic in measurement and evaluation. Note: May be repeated to a maximum of six credits. A maximum of six hours of independent study accumulated in KIN 790-795 may be counted towards a master's degree. **Prerequisites:** Consent of instructor.

KIN 793 - Independent Study in Motor Behavior

Credits 1 – 3

Independent study of a selected topic in motor behavior. Note: May be repeated to a maximum of six credits. A maximum of six hours of independent study accumulated in KIN 790-795 may be counted towards a master's degree.

Prerequisites: Consent of instructor.

KIN 795 - Independent Study in Sports Injury Management

Credits 1 – 3

Independent study of a selected topic in sports injury management. Note: May be repeated to a maximum of six credits. A maximum of six hours of independent study accumulated in KIN 790-795 may be counted towards a master's degree. **Prerequisites:** Consent of instructor.

KIN 796 - Supervised Practice: Community Nutrition

Credits 2

For Students accepted into the Department of Nutrition Sciences Dietetic Internship. Students gain intensive experiences covering all aspects of community nutrition programming. Students will observe the diversity within community nutrition in terms of mission, target audience and programs and will actively participate in nutrition program development, implementation, evaluation, and marketing. Corequisite KIN 797 and KIN 798.

KIN 797 - Supervised Practice: Food Service Management

Credits 2

For students accepted into the Department of Nutrition Sciences Dietetic Internship. Students will gain experience in managing the diet office, tray line production and supervision, food service production, cafeteria management, and catering. Corequisite KIN 796 and KIN 798.

KIN 798 - Supervised Practice: Clinical Nutrition and Dietetics

Credits 2

For students accepted into the Department of Nutrition Sciences Dietetic Internship. Students will gain the skills required to screen and assess individual patients, interpret laboratory values, develop and implement appropriate care plans, complete appropriate diet instructions, and document all assessment and plan information in correct medical chart format. Corequisite KIN 797 and KIN 798.

Physical Therapy

Chair

Wallmann, Harvey

(1997), Associate Professor; B.A., M.S., Purdue University; M.S., University of Indianapolis; DSc, Loma Linda University.

Graduate Coordinator

Puentedura, E. Louie

(2007), Assistant Professor; B.A.S. and G.D.M.T., Lincoln Institute of Health Sciences, La Trobe University; D.P.T., Northern Arizona University.

Graduate Faculty

Hickman, Robbin

(2007), Assistant Professor; B.S., California State University, Long Beach; M.H.S., University of Indianapolis; D.Sc., Rock Mountain University of Health Professionals.

Landers, Merrill

(2001), Associate Professor; B.S., Brigham Young University; DPT, Creighton University.

McWhorter, J. Wesley

(2000), Associate Professor; Physical Therapy, B.S., Ph.D., Brigham Young University; MPT, Baylor School of Physical Therapy.

Schuerman, Sue

(2006), Assistant Professor; B.S., University of Nebraska; M.B.A., University of Massachusetts, Ph.D., University of Nebraska.

Young, Danny

(2007), Assistant Professor; B.S., Southern Utah University; D.P.T., Creighton University.

The Department of Physical Therapy offers a graduate program leading to a Doctor of Physical Therapy (DPT) degree. The program is designed to prepare students to plan and administer treatment to help patients regain diminished physical function lost secondary to injury or disease, to promote soft tissue healing, and to relieve pain. By determining the degree of impairment, physical therapists are then able to help patients return to full function by using various physical agents such as electrical stimulation, heat, and cold to decrease pain and by using therapeutic exercises to increase strength, endurance, and coordination.

The purpose of the Department of Physical Therapy is to provide students pursuing a career in physical therapy the opportunity to acquire the knowledge and skills required for the safe practice of physical therapy. Students are prepared as generalists, but also have some opportunity to investigate specialized aspects of physical therapy through numerous clinical exposures. The program of study consists of approximately 111 credit hours of graduate course work and consists of intense academic and clinical work spread over six semesters and three summers. These hours are divided between classroom, clinical and research activities.

The DPT is an entry-level professional program designed to provide individuals with appropriate baccalaureate degrees the knowledge and skills to develop clinical and research expertise in the provision of physical therapy. Upon receiving this degree, students will be eligible to sit for the licensure examination in physical therapy.

The mission of the UNLV Department of Physical Therapy is to develop competent, caring and autonomous practitioners who will serve the health care needs of the State of Nevada and the profession and who are doctorally prepared to engage in critical thinking, evidence-based practice, life-long learning, and service in a variety of health care settings, including rural and under-served areas.

Physical Therapy D.P.T.

Admission Requirements

Admission to the program is limited to 30 available spaces per class. Students enrolling in any class in the Department of Physical Therapy must be admitted (graduate standing only, no graduate provisional standing accepted) to the program in the Summer semester of each year. Since enrollment is limited in the Physical Therapy program, satisfactory completion of prerequisite courses does not assure an applicant of admission. No student may take any class as a "Nondegree Seeking" student. Admissions criteria are reviewed by the faculty annually and are subject to change.

Prior to application to the program, the individual is advised to fully explore the nature of the profession of physical therapy. Students are expected to volunteer in or

visit various physical therapy facilities in order to gain a broad view of the roles and responsibilities of a physical therapist. As part of the interview process, students will be assessed on their knowledge of the scope of the profession of physical therapy.

The application deadline is December 15 preceding the June in which admission is desired. After applications are received, they are reviewed regarding the minimum requirements, i.e., baccalaureate degree, GPAs, etc. Only the leading candidates will be invited for interviews during the Spring semester, which are based on satisfactory completion of the admission requirements.

The following requirements are considered for admission into the Doctor of Physical Therapy program:

1. Prior to entering the program, candidates must complete prerequisite courses and earn a baccalaureate degree from an accredited college or university. There is no preference given to any particular baccalaureate degree.
2. A minimum overall undergraduate grade point average of 2.75 on a 4.0 scale with a minimum average of 3.0 on a 4.0 scale for prerequisite courses.
3. A composite score of 1000 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE) is preferred. A score of 4 out of 6 is recommended on the Analytical Writing Section of the GRE.
4. Students must apply to the DPT program via the new Physical Therapy Centralized Application Service (PTCAS). Only applications from PTCAS will be considered. Please use the URL www.ptcas.org to complete your application.

The following are required with your application to PTCAS:

- A. Three letters of recommendation. Two of the letters need to be from a licensed physical therapist who can evaluate the applicant's potential as a student in the physical therapy program. The remaining letter can be from a former professor or employer.
 - B. An autobiographical statement of approximately 300 words describing the student's professional goals and reasons for seeking graduate education in physical therapy.
 - C. Knowledge of the field through actual work or volunteer experience (a minimum of 100 hours or more divided among hospital and outpatient facilities). Additional hours in diversified settings are strongly recommended.
5. An interview may be required.

Information to be submitted to the Graduate College:

1. Application forms are available on the Graduate College website, with appropriate fees.
2. Official transcripts from all previous college and professional schools.
3. Official scores from the Graduate Record Examination (GRE).

The program is open to qualified applicants without regard to race, color, religion, sex, sexual orientation, age, national origin, marital status, or the presents of any physical, sensory, or mental disability.

Prerequisite Courses

In addition to completing the requirements of a baccalaureate degree, applicants must have completed or be able to complete the necessary specific hours of prerequisite course work with a grade of at least a C prior to admission to the program. Grades below a C in prerequisite courses will not be accepted. No more than two prerequisite science courses should be in progress or incomplete and all prerequisite science courses must be completed by the end of the spring semester (quarter) prior to commencing the program. Those students in the process of fulfilling the requirements of a prerequisite course must realize that their acceptance into the program is contingent upon satisfactory completion of that course during the application process.

Courses taken on a pass-fail basis may not fulfill prerequisite requirements. Individuals submitting prerequisite course work completed prior to 1995 should contact the Physical Therapy Department Office to determine if the course work is appropriate to fulfill prerequisite course requirements, which are as follows:

1. One year of lecture-based biology courses
2. One year of laboratory and lecture-based anatomy and physiology courses
3. One year of laboratory and lecture-based inorganic chemistry
4. One year of laboratory and lecture-based physics
5. One year psychology (introduction to psychology and one semester of either child, adolescent, developmental or abnormal psychology)
6. One semester statistics

Advisement

All entering students will be assigned a specific faculty member for advisement.

Policies and Procedures

Policies and procedures for didactic and clinical work regarding course grades, probation, separation, and reapplication are detailed in the Department of Physical Therapy *Student Manual and Clinical Education Manual*.

Progression

To progress in the Physical Therapy Program students must adhere to the following guidelines:

1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
2. Receive a grade of B- or above in all required physical therapy courses. Students who do not maintain a 3.00 average or who receive any grade less than a B- in any course at the end of the semester will be notified in writing and placed on probation at that time. A second grade of C+ or lower received in any course in the ensuing semester or failure to restore the cumulative average to 3.00 or above during the ensuing semester will bring about separation from the program. The student's status in the program will be determined the Chair/Director on the recommendation of the Academic Review Committee (ARC) regarding the student's separation or action plan for remediation.
3. The student will not progress in the program if any of the following occur:
 - a. An earned F in any didactic course. This results in immediate separation without the option for reapplication.
 - b. Failure of a third attempt of any clinical competency check-off with the exception of the final practical exam.
 - c. A failure of a final practical exam (different than the competency check-off).
 - d. A grade of C+ or below in more than one course in any semester.
 - e. Inability to rectify probationary status within the time frame allotted by the ARC.
 - f. A student on probation whose actions warrant probation in another category (academic, professional behavior, clinical) may also be separated.
4. A student may register for a Supervised Clinical Education course only two times if the option to reapply is approved by the ARC and a recommendation is made to the department chair/director. This option is only available to students who have failed a clinical rotation and have been separated from the program. This option is not available to students failing didactic course work. A student who is registered for the same course twice and has withdrawn or received a Fail is ineligible for readmission unless otherwise approved by the ARC, Department Chair, and Graduate Dean.
5. The students must follow the proposed curriculum in the specified time frames unless otherwise approved by the ARC, Department Chair, and Graduate Dean.
3. To prepare graduates who will be able to work autonomously in a wide variety of settings and roles as practitioners, clinical educators and researchers, supervisors, administrators and consultants.
4. To prepare students to adapt to changes in health care and society and be prepared to work in challenging environments with elderly, rural, and underserved populations.
5. To educate students in the design and implementation of culturally competent health care.
6. To develop scientific practitioners, who are able to demonstrate the ability to critically analyze literature, utilize evidence-based integrated treatment approaches, and value clinical based research.
7. To prepare graduates to educate and encourage patients to achieve functional independence so they may have an improved quality of life and become more productive members of society.
8. To prepare graduates who will be able to organize and promote health awareness, wellness, and prevention education, and reintegrate populations with special needs into the community throughout-reach programs.
9. To prepare graduates to assume a leadership role in addressing critical issues that affect clinical practice, education, research, and public policy.
10. To prepare graduates to be committed to a lifetime of self-directed learning, professional development, integrity, community involvement, and to exemplify professional and personal ethics and values.
11. To prepare graduates to demonstrate understanding of medico-legal issues in physical therapy practice through active involvement in professional organization.
12. To educate students on the benefits of working interdependently with other health care professionals using a team approach to patient care.

Graduation Requirements

Students in the Physical Therapy program must adhere to the following requirements for graduation:

1. Satisfactory completion of the Physical Therapy program curriculum including the required period of clinical education with a grade point average of 3.00 or higher on a scale of 4.00.
2. Credit by Challenge Examination. Graduate courses in the Department of Physical Therapy may not be challenged for credit.
3. The program must be completed within six years from the date of matriculation. The chair/director will evaluate potential exceptions.
4. In addition to the course requirements, the student must satisfactorily prepare a written document and oral presentation of a final research project, professional paper, or case report. The presentation will satisfy the requirements for a final capstone experience and will be open to the public.

Objectives

1. To prepare students to be the purveyors of physical therapy practice through clinical excellence, critical thinking, scientific inquiry, and social responsibility.
2. To prepare students to differentially diagnose enabling them to establish an appropriate plan of care and provide referral as necessary.

5. Students must be in good standing with the Department of Physical Therapy and cannot be on a probation status at the time of graduation. Policies related to student probation, separation, and academic progress as stated in the current physical Therapy Student Manual are in compliance with the Graduate College.

Degree Requirements

Entry-Level Doctor of Physical Therapy Degree Curriculum - Total Credits: 111

*Beginning with the class of 2011, the curriculum will be modified to reflect faculty and student concerns based upon program assessment. These changes will take place throughout the next year.

Summer Semester 1st Year (Both Sessions) - Total Credits: 9

- DPT 710 - Selected Topics in Physical Therapy - 1 credit
- DPT 711 - Medical Terminology - 1 credit
- DPT 726 - Evidenced-Based Practice in Physical Therapy I - 1 credit
- DPT 744 - Gross Anatomy I - 2 credits
- DPT 744L - Gross Human Anatomy Lab I - 1 credit*
- DPT 745 - Gross Anatomy II - 2 credits
- DPT 745L - Gross Human Anatomy Lab II - 1 credit*

Fall Semester 1st Year - Total Credits: 19

- DPT 730 - Foundations of Observation and Assessment - 2 credits
- DPT 730L - Foundations of Observation and Assessment - 2 credits*
- DPT 741 - Orthopaedic Principles - 3 credits*
- DPT 742 - Clinical and Pathological Physiology - 5 credits
- DPT 746 - Neuroanatomy - 3 credits
- DPT 746L - Neuroanatomy Lab - 1 credit
- DPT 749 - Applied Exercise Physiology - 2 credits
- DPT 749L Applied Exercise Physiology Lab - 1 credit

Spring Semester 1st Year - Total Credits: 19

- DPT 732 - Therapeutic Exercise - 2 credits
- DPT 732L - Therapeutic Exercise - 1 credit
- DPT 735 - Functional Training and Acute Care - 2 credits
- DPT 735L - Functional Training and Acute Care Lab - 1 credit
- DPT 748 - Pharmacology - 2 credits
- DPT 754 - Orthopaedic Assessment in Physical Therapy - 4 credits
- DPT 756 - Neurophysiology - 4 credits
- DPT 790 - Clinical Research in Physical Therapy - 3 credits

Summer Semester 2nd Year (Both Sessions) - Total Credits: 7

- DPT 721 - Advanced Topics in Physical Therapy - 1 credit
- DPT 752 - Physical Agents and Electrophysiology - 2 credits
- DPT 752L - Physical Agents and Electrophysiology Lab - 1 credit*

DPT 761 - Supervised Clinical Education I - 3 credit*

Fall Semester 2nd Year - Total Credits: 16

- DPT 720 - Professional Development - 2 credits
- DPT 757 - Wound Care - 2 credits*
- DPT 770 - Cardiopulmonary Rehabilitation - 1 credit
- DPT 770L - Cardiopulmonary Rehabilitation Lab - 1 credit
- DPT 785 - Orthopaedic Rehabilitation - 2 credits
- DPT 785L - Orthopaedic Rehabilitation Lab - 1 credit
- DPT 786 - Neurological Rehabilitation - 3 credits
- DPT 786L - Neurologic Rehabilitation Laboratory Experience - 1 credit
- DPT 791 - Applied Research Statistics - 3 credits*

Spring Semester 2nd Year - Total Credits: 16

- DPT 727 - Evidence-Based Practice in Physical Therapy II - 1 credit
- DPT 747 - Geriatric Examination and Intervention - 1 credit
- DPT 750 - Prosthetics and Orthotics - 2 credits
- DPT 750L - Prosthetics and Orthotics - 1 credit
- DPT 755 - Geriatric and Pediatric Rehabilitation - 2 credits
- DPT 755L - Geriatric and Pediatric Rehabilitation - 1 credit
- DPT 758 - Diagnostic Testing and Imaging - 2 credits
- DPT 787 - Integrated Rehabilitation - 2 credits
- DPT 787L - Integrated Rehabilitation Lab - 1 credit
- DPT 788 - Spine Examination and Treatment - 2 credits
- DPT 788L - Spine Examination and Intervention Lab - 1 credit

Summer Semester 3rd Year (Both Sessions) - Total Credits: 6

- DPT 751 - Women's Health in Physical Therapy - 2 credits
- DPT 772 - Physical Therapy Administration - 2 credits
- DPT 774 - Psychosocial Aspects of Physical Therapy - 2 credits

Fall Semester 3rd Year - Total Credits: 10

- DPT 762 - Supervised Clinical Education II - 5 credits*
- DPT 763 - Supervised Clinical Education III - 5 credits*

Spring Semester 3rd Year - Total Credits: 9

- DPT 764 - Supervised Clinical Education IV - 6 credits*
- DPT 798 - Directed Research - 3 credits

* Course fee

Course Descriptions

DPT 710 - Selected Topics in Physical Therapy

Credits 1

Forum to disseminate information to students on current and professional issues in physical therapy.

Prerequisites: Graduate standing in physical therapy.

DPT 711 - Medical Terminology

Credits 1

Introduction to medical terminology for the healthcare professional. Students expand their medical vocabulary via immersion in medical content and subjects from a broad spectrum of body systems. **Prerequisites:** Graduate standing in physical therapy.

DPT 720 - Professional Development

Credits 2

Theories and experiences designed to develop skills to accurately, sensitively and assertively communicate with patients, families, and colleagues. Principles of written and oral communication. Professional issues of changes in health care, state and local laws, standards of practice, code of ethics, quality assessment and quality assurance.

Prerequisites: Graduate standing in physical therapy.

DPT 721 - Advanced Topics in Physical Therapy

Credits 1

Through in-class and web-assisted instruction, independent study, and mentored project development, prepares students for a variety of clinical competencies including health promotion/wellness, evaluation of alternative and complementary approaches, rural health, and other advanced aspects of clinical practice, ethics, and professional conduct related to physical therapy.

Prerequisites: DPT 710

DPT 722 - Issues in Rural Health

Credits 1

Unique needs of frontier/rural and underserved populations addressed, emphasizing the eclectic nature of practice in these areas, the importance of networking with other disciplines, and special considerations of these populations including functional rehabilitation, time management, travel, emergencies, and involvement of families in treatment. **Prerequisites:** Graduate standing in physical therapy.

DPT 726 - Evidenced-Based Practice in Physical Therapy I

Credits 1

Designed to provide the student with knowledge and hands-on experience in skills required to engage evidence-based clinical practice of physical therapy. Students will learn how to write answerable questions, search the literature, and critically analyze evidence for application in clinical practice. **Prerequisites:** Graduate standing in Physical Therapy.

DPT 727 - Evidence-Based Practice in Physical Therapy II

Credits 1

This 1-credit course builds on DPT 726 and 790, providing students with knowledge skills to implement evidence-based

practice in physical therapy. Students will critique special cases of evidence and psychometric properties of diagnostic tools and outcome measures, and create a minimal data set in order to integrate evidence into practice. **Prerequisites:** DPT 726 and 790

DPT 730 - Foundations of Observation and Assessment

Credits 2

Basic patient assessment skills with introduction to posture and gait evaluation through observation. Patient history and review of the medical record. Documentation in S.O.A.P. Note and functional outcome formats. Assessment skills emphasized include: anthropometric measures, reflex and sensation testing, goniometry, manual muscle testing, vital signs, and surface palpation. **Prerequisites:** Graduate standing in physical therapy. Corequisite DPT 730L

DPT 730L - Foundations of Observation and Assessment Lab

Credits 2

Lab of basic patient assessment skills including posture, gait evaluation, anthropometric measures, reflex and sensation testing, goniometry, manual muscle testing, vital signs, and surface palpation. Patient history and review of medical records, documentation in SOAP format, and functional outcome formats. **Prerequisites:** Graduate standing in Physical Therapy. Corequisite DPT 730

DPT 732 - Therapeutic Exercise

Credits 3

Holistic approach to evaluation and management of patients with various orthopaedic pathologies and dysfunctions. Emphasis placed on theoretical basis of specific functional skills interrelated with clinical decision-making methodology leading to safety awareness and proper body mechanics. Exposure to community/work reintegration and home exercise program instruction. **Prerequisites:** Graduate standing in physical therapy.

DPT 735 - Functional Training and Acute Care

Credits 3

Performance and application of positioning skills, transfers techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned materials into therapy interventions. Clinical reasoning skills in assessment, treatment design and intervention, goal development and discharge planning for patients in the acute hospital environment. **Prerequisites:** Graduate standing in Physical Therapy. DPT 744, 745, 730. Corequisite DPT 735L

DPT 735L - Functional Training and Acute Care Lab

Credits 1

Hands on performance and application of positioning skills, transfer techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned

materials into therapy interventions. Clinical reasoning skills in assessment, treatment design and intervention, goal development and discharge planning for patients in the acute hospital environment. **Prerequisites:** Graduate standing in Physical Therapy. DPT 744, 745, 730. Corequisite DPT 735

DPT 741 - Orthopaedic Principles

Credits 3

Principles of orthopaedic physical therapy including biomechanics, applied anatomy, and osteokinematic and arthrokinematic concepts examined. Musculoskeletal system investigated from histological, structural, and functional perspectives. **Prerequisites:** Graduate standing in physical therapy.

DPT 742 - Clinical and Pathological Physiology

Credits 5

Fundamentals of physiology and pathology related to diseases causing abnormal movement patterns or capabilities. Processes and diseases most frequently encountered in physical therapy practice emphasized.

Prerequisites: Graduate standing in physical therapy.

DPT 744 - Gross Anatomy I

Credits 2

Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the trunk and upper extremity, structural identification and function of the spine, heart, lungs, abdominopelvic organs, circulatory and sensory systems. Emphasis on relevance of gross anatomy to physical therapy practice. Involves both lecture and laboratory dissection that will cover the upper half of the body. **Prerequisites:** Graduate standing in Physical Therapy. Corequisite DPT 744L

DPT 744L - Gross Human Anatomy Lab I

Credits 1

Gross human anatomy cadaver lab with supervised dissection and exploration of muscle, tendon, ligament and nerve innervation of the trunk and upper extremity, structural identification and function of the spine, heart, lungs, abdominopelvic organs, circulatory and sensory systems.

DPT 745 - Gross Anatomy II

Credits 2

Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the head, neck, and lower extremity, structural identification and function of the corresponding circulatory and sensory systems.

Prerequisites: DPT 744 and DPT 744L Corequisite DPT 745L

DPT 745L - Gross Human Anatomy Lab II

Credits 1

Gross human anatomy cadaver lab with supervised dissection and exploration of muscle, tendon, ligament and nerve innervation of the head, neck, and lower extremity, structural identification and function of the corresponding circulatory and sensory systems. **Prerequisites:** DPT 744 and DPT 744L Corequisite DPT 745

DPT 746 - Neuroanatomy

Credits 3

High level immersion into the anatomy of the nervous system, emphasizing structure and functional relationships. Coursework will also relate the structural relationships of the central and peripheral nervous systems to brain dysfunction and pathology. **Prerequisites:** Graduate standing in physical therapy. Corequisite DPT 746L

DPT 747 - Geriatric Examination and Intervention

Credits 1

Examination, evaluation, plan of intervention, outcomes, patient education, and health promotion as applied to the geriatric client. Issues include factors affecting normal aging, pathological aging, common pathologies associated with aging, quality of life, successful aging, care settings, reimbursement, and public policy. **Prerequisites:** Graduate standing in physical therapy.

DPT 748 - Pharmacology

Credits 2

Actions and effects of pharmaceutical agents commonly encountered in physical therapy clinical practice.

Prerequisites: Graduate standing in Physical Therapy.

DPT 749 - Applied Exercise Physiology

Credits 2

Review of systems responsible for the generation of energy. Overview of the physiologic responses of the human body to acute bouts of exercise and how training leads to chronic adaptation of selected systems. Course content focuses on principles of exercise, role of nutrients in body metabolism, human development and performances. **Prerequisites:** Graduate standing in physical therapy.

DPT 750 - Prosthetics and Orthotics

Credits 3

Evaluation of medical, surgical and prosthetic and rehabilitation management of amputations. Design, fabrication and fitting of prosthetic devices as well as general orthotics principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. **Prerequisites:** Graduate standing in physical therapy.

DPT 751 - Women's Health in Physical Therapy

Credits 2

Overview of the anatomical, physiological, nutritional, psychological, and sociological influences throughout the woman's life span including: adolescence, the reproductive years, the middle years, the older age. Discussion of physical therapy management of musculoskeletal, integumentary, cardiopulmonary, and visceral pathologies common to women. **Prerequisites:** Graduate standing in physical therapy.

DPT 752 - Physical Agents and Electrophysiology

Credits 3

Biological processes of injury and repair, clinical application of soft tissue techniques, thermal agents, intermittent compression, continuous motion, electrical stimulation, and mechanical traction. Principles of electrophysics and neurophysiology as they pertain to the use of therapeutic electrical stimulation. Advancement to clinical decision-making skills in physical application.

Prerequisites: Graduate standing in Physical Therapy. DPT 742, 730, 732. Corequisite DPT 752L

DPT 752L - Physical Agents and Electrophysiology Lab

Credits 1

Hands on performance and clinical application of soft tissue techniques, thermal agents, intermittent compression, continuous motion, electrical stimulation, mechanical traction, therapeutic electrical stimulation. **Prerequisites:** Graduate standing in Physical Therapy. DPT 742, 730, 732. Corequisite DPT 752

DPT 753 - Electrotherapy

Credits 2

Principles of a electrophysics and neurophysiology as they pertain to the use of therapeutic electrical stimulation. Application techniques of various electrical stimulation devices also presented. **Prerequisites:** DPT 742, DPT 752, DPT 730, DPT 732.

DPT 754 - Orthopaedic Assessment in Physical Therapy

Credits 4

Evaluation and assessment of upper and lower extremity orthopaedic problems. Functional anatomy, biomechanics, and evaluative manual therapy skills used to functionally diagnose orthopaedic pathologies and disorders.

Prerequisites: DPT 730, 741, and 744.

DPT 755 - Geriatric and Pediatric Rehabilitation

Credits 3

Examination of factors affecting normal and pathologic systems from birth into aging. Issues include normal developmental sequences and common pathologies across the life span. Evaluation, wellness and leisure activities, and how basic rehabilitation procedures can be modified for the

elderly. **Prerequisites:** Graduate standing in physical therapy.

DPT 756 - Neurophysiology

Credits 4

High level immersion into the function of the human central and peripheral nervous systems based on current research and theory. Topics include normal human motor and sensory neurophysiology, cognitive and learning neurophysiology, neuropathophysiology, neuroplasticity, neurodiagnostics and neurologic treatment options.

Prerequisites: DPT 746

DPT 757 - Wound Care

Credits 2

Clinical practice of wound care including physiology of tissue healing, wound assessment tools, dressings and treatment approaches. Processes and diseases most frequently encountered in physical therapy practice specializing in wound care. **Prerequisites:** DPT 742, DPT 752

DPT 758 - Diagnostic Testing and Imaging

Credits 2

Presentation of diagnostic tests used by disciplines and specialties within and outside of the profession of physical therapy. Discussion of blood studies, nuclear medicine studies, and radiologic/X-ray studies. Interpretation of test results as it applies to physical therapy evaluation, intervention planning and treatment. **Prerequisites:** Graduate standing in physical therapy

DPT 761 - Supervised Clinical Education I

Credits 3

The first clinical affiliation is a supervised full-time extended clinical learning experience six weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in learning in order to develop introductory clinical competence in the delivery of services to persons with movement dysfunction.

Prerequisites: Successful completion of all course work in the first year of the graduate physical therapy program.

DPT 762 - Supervised Clinical Education II

Credits 5

The second clinical affiliation is a supervised, full-time extended clinical learning experience 11 weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction.

Prerequisites: DPT 761

DPT 763 - Supervised Clinical Education III

Credits 5

The third clinical affiliation is ten and one-half weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experimental learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction.

Prerequisites: DPT 762**DPT 764 - Supervised Clinical Education IV**

Credits 6

The fourth clinical affiliation is twelve weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction.

Prerequisites: DPT 763**DPT 765 - Clinical Education V**

Credits 4

This nine-week clinical affiliation is an extended learning experience for students completing the transitional physical therapy doctorate. The primary purpose is to provide students the opportunity to advance clinical competence in the delivery of physical therapy services to persons with movement dysfunction. **Prerequisites:** Successful completion or concurrent work in all course work to date in the transitional doctorate physical therapy program.

DPT 770 - Cardiopulmonary Rehabilitation

Credits 1

Review of systems responsible for the generation of energy. Over-view of the physiologic responses of the human body to acute bouts of exercise and how training leads to chronic adaptation of selected systems. Course content focuses on principles of exercise, role of nutrients in body metabolism, human development and performance. **Prerequisites:** Graduate standing in physical therapy. Corequisite/Prerequisite DPT 770L

DPT 770L - Cardiopulmonary Rehabilitation Lab

Credits 1

Lab of basic patient skills including assessment of vital signs, breathing patterns, heart sounds, ECG interpretation, pulmonary function testing, blood gases, chest wall mobility, cough and sputum, ventilation, performance of bronchial drainage, prescribe exercises for patient with compromised cardiopulmonary function. Corequisite DPT 770

DPT 772 - Physical Therapy Administration

Credits 2

General principles of organizations and administration that impact the ethical and legal aspects of physical therapy practice. Topics include budget development, cost

accounting, supervision, communication skills, evaluative techniques, and methods of management and quality assurance. **Prerequisites:** Graduate standing in physical therapy.

DPT 774 - Psychosocial Aspects of Physical Therapy

Credits 2

Social and psychological issues which arise during illness examined and discussed in an open class discussion format. Emphasis on self-awareness as well as awareness of others with respect to cultural differences, religious beliefs, addictions, and coping strategies during stress.

Prerequisites: Graduate standing in physical therapy.**DPT 785 - Orthopaedic Rehabilitation**

Credits 2

Manual therapy and therapeutic exercise techniques for the extremities with emphasis on integrating these techniques into treatment regimes for specific orthopaedic pathologies/disorders. Includes pathogenesis, clinical presentation, medical/surgical management and rehabilitation. Review, integrate, and enhance knowledge from previous course work as it pertains to appropriate entry-level application. **Prerequisites:** DPT 732, DPT 741, DPT 754 Corequisite DPT 785L

DPT 785L - Orthopaedic Rehabilitation Lab

Credits 1

Orthopaedic Rehabilitation lab with supervised integration of manual therapy and therapeutic exercise techniques for the extremities. Focus will be on developing and providing treatment regimes for specific orthopaedic pathologies/disorders. Students will refine skills from previous course work as it pertains to appropriate entry-level application. **Prerequisites:** DPT 732, DPT 741, DPT 754. Corequisite DPT 785

DPT 786 - Neurological Rehabilitation

Credits 3

Course fosters clinical reasoning and critical analysis skills across elements of patient client management for individuals with neurologically-based movement disorders. Students are exposed to theory and movement science as related to clinical reasoning. Students are expected to incorporate professional behavior, scientific and clinical knowledge and critical analysis to clinical applications. **Prerequisites:** DPT 730, DPT 732, DPT 744, DPT 745, DPT 746, DPT 756. Corequisite DPT 786L

DPT 786L - Neurologic Rehabilitation Laboratory Experience

Credits 1

Course emphasizes hands-on skill development, clinical reasoning, and critical analysis skills for all elements of patient-client management for individuals with neurologically-based movement disorders across the lifespan. Students are expected to incorporate professional

behavior, scientific and clinical knowledge, critical analysis and competent skill performance in laboratory and practical skill application. Corequisite DPT 786

DPT 787 - Integrated Rehabilitation

Credits 2

Assessment and treatment of advanced orthopedics, advanced neurological, and spinal cord injured patients utilizing comprehensive techniques for spinal cord injury (SCI), orthopedics, and neurological treatment. Through dynamic patient case problems, students evaluate, plan, and implement course of treatment. **Prerequisites:** Graduate standing in Physical Therapy. DPT 786, DPT 785
Corequisite DEP 787L

DPT 787L - Integrated Rehabilitation Lab

Credits 1

Hands on assessment and treatment of advanced orthopedics, advanced neurological, and spinal cord injured patients utilizing comprehensive techniques for spinal cord injury (SCI), orthopedics, and neurological treatment. Through dynamic patient case problems, students will be able to evaluate, plan, and implement a course of treatment. **Prerequisites:** Graduate standing in Physical Therapy. DPT 786, DPT 785. Corequisite DPT 787

DPT 788 - Spine Examination and Treatment

Credits 2

Spine examination including biomechanics, observation, range of motion, muscle strength, joint play and special tests. Inclusion of examination schema, clinical reasoning skills and differential diagnosis of commonly seen spine pathology. Emphasis on hands-on examination, assessment, and treatment including manual therapy, spinal mobilization and spinal manipulation skills. **Prerequisites:** Graduate standing in physical therapy. Corequisite DPT 788L

DPT 788L - Spine Examination and Intervention Lab

Credits 1

Lab sessions focusing on hands-on examination, assessment, and treatment of spine dysfunction, including manual therapy, spinal mobilization and spinal manipulation skills. **Prerequisites:** Graduate standing in Physical Therapy or consent of instructor. Corequisite DPT 788

DPT 790 - Clinical Research in Physical Therapy

Credits 3

Introduction to principles and concepts of clinical research in physical therapy. Covers development of the research question, measurement issues, statistical analysis, literature review, and writing of results. **Prerequisites:** Graduate standing in physical therapy.

DPT 791 - Applied Research Statistics

Credits 3

Review of foundations, concepts of measurement, and design in clinical research. Emphasis on hands-on data analysis of clinically relevant physical therapy research designs including descriptive statistics, statistical inference, analysis of differences, and analysis of relationships.

Prerequisites: Graduate standing in physical therapy.

DPT 795 - Independent Study

Credits 1 – 6

Students pursue a topic related to physical therapy beyond that covered in the graduate curriculum. Satisfactory completion accomplished through individualized, self-directed study. Topics based on student preference and faculty approval. Faculty and student jointly determine goals, objective and evaluation methods. Note: May be repeated to a maximum of six credits. **Prerequisites:** Graduate standing in physical therapy.

DPT 798 - Directed Research

Credits 1 – 6

Critical inquiry by participating in new or ongoing research with faculty who serve as project advisors. Students summarize research by a written report and present each project orally to the faculty and area clinicians. Note: May be repeated to a maximum of six credits. **Prerequisites:** DPT 790

Other Courses

PTS 744 - Gross Human Anatomy

Credits 3

Gross anatomy studied regionally stressing relationships of major structures, organs, vessels and nerves. Prosected human cadaver observation by students included in laboratory session (PTS 744L). All major areas of the body covered. Reference to the relationship of anatomical structures to pathology, traumatic injury and medicine stressed. **Prerequisites:** Undergraduate Anatomy, Physiology or Biology lab course. Corequisite PTS 744L

PTS 744L - Gross Human Anatomy Lab

Credits 1

Gross human anatomy cadaver lab with supervised examination and exploration of prosected human cadavers. All major areas of the body are covered. References to the relationship of anatomical structures to pathology, traumatic injury and medicine stressed. **Prerequisites:** Undergraduate Anatomy, Physiology or Biology lab course or equivalent. Corequisite PTS 744.

School of Community Health Sciences

The School of Community Health Sciences is committed to preparing students to meet the critical need for public health professionals in Nevada, the nation, and the world. We provide an excellent program with a variety of areas for concentration and the opportunity for applied research. The School of Public Health has a special interest in community-based participatory research.

The School of Public Health consists of the following departments:

Environmental & Occupation Health
Health Care Administration & Policy
Health Promotion
Epidemiology and Biostatistics

Mary Guinan, Founding Dean

(2004) Professor of Epidemiology and Community Health; M.D., Johns Hopkins University; Ph.D., University of Texas.

Graduate Coordinator

Chino, Michelle
(2000) Associate Professor of Environmental and Occupational Health, B.S., M.S., Ph.D. University of New Mexico.

Graduate Faculty

Bungum, Timothy
(2001) Associate Professor of Biostatistics and Epidemiology; B.A. Luther College; M.S., D.P.H. University of South Carolina.

Buttner, Mark P.
(1989) Associate Professor of Environmental and Occupational Health; B.S. University of Wisconsin; M.S. University of Nevada Las Vegas, PhD University of Nevada Reno.

Cochran, Christopher
(1997) Associate Professor of Health Care Administration and Policy; B.A. University of Texas, El Paso; M.P.A., Ph.D. University of South Carolina.

Cross, Chad
(2005) Associate Professor of Biostatistics and Epidemiology; B.S., Purdue University, M.S., Ph.D. Old Dominion University.

Cruz, Patricia
(1995) Associate Professor of Environmental and Occupational Health, B.S. University of Puerto Rico, M.S. University of Central Florida, PhD. University of Nevada Reno.

Dodge Francis, Carolee
(2007) Assistant Professor of Environmental and Occupational Health; B.S., M.A., Ed.D., University of St. Thomas.

Gerstenberger, Shawn
(1997) Associate Professor and Chair of Environmental and Occupational Health; B.S. University of Wisconsin-Platteville; M.S., Ph.D. University of Illinois.

Ginn, Gregory
(2000) Associate Professor of Health Care Administration and Policy; B.A., M.Ed., MBA, Ph.D. University of Texas, Austin.

McNab, Warren
(1979) Professor of Health Promotion; B.S., M.S. Mankato State University; Ph.D. Southern Illinois University.

Moonie, Sheniz
(2006) Assistant Professor of Biostatistics and Epidemiology, BS University of California San Diego, MS California Polytechnic University, Pomona, PhD Saint Louis University

Moseley, Charles
(1991) Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University.

Regin, Charles
(1987) Assistant Professor of Health Promotion, B.S., M.S. University of Wisconsin-La Crosse; Ph.D. Southern Illinois University.

Shen, Jie
(2006) Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University.

Stetzenbach, Linda
(2005) Professor of Environmental and Occupational Health; B.S., M.S., Ph.D., University of Arizona.

Thompson-Robinson, Melva
(2004) Associate Professor of Health Promotion, B.S. University of Michigan, M.S. Ohio University, D.P.H. University of South Carolina.

Wong, David
(2008) Associate Research Professor. B.Sc., M.Sc. Ocean University of Qingdao, Ph.D. City University of Hong Kong.

UNLV School of Community Health Sciences Affiliated Centers, Institutes and Programs

American Indian Research and Education Center
Nevada Institute for Children's Research and Policy
Center for Health Promotion
Center of Excellence for Women's Health Issues
Institute for Security Studies
e-Records and Healthcare Informatics
e-Medical Technology and e-Health Programs
Center for Health Disparities Research

Public Health M.P.H.

The Master of Public Health Degree Program is designed to prepare students to be public health professionals in the private and public sectors with the overall goal of promoting and protecting the health of individuals in our society. The Master of Public Health degree (MPH) is comprised of an 18-credit required core for every student. The 21 credits represent the four primary areas of specialty offered in Public Health programs, plus one additional course entitled Fundamentals of Public Health. The four specialty areas include: (1) Health Promotion, (2) Environmental and Occupational Health, (3) Health Care Administration and Policy, and (4) Biostatistics and Epidemiology. In addition to the core courses, each student will select an 18-21 credit concentration area from one of the four aforementioned concentrations. All candidates will finish their MPH degree with a 3-6 credit capstone project resulting in a 42-credit degree program.

Educational Objectives

The purpose of the MPH Program is to prepare individuals to become effective health care practitioners, researchers and teachers who will competently identify public health problems and needs, develop effective strategies to address those needs, and promote appropriate services to be available for the protection of human health.

At a minimum, the following criteria should be met to assure each student a) develops an understanding of the areas of knowledge that are basic to public health, b) acquires skills and experience in the application of basic public health concepts and of specialty knowledge to the solution of community health problems, and c) demonstrates integration of knowledge through a capstone experience.

Admissions Requirements

To be considered for admission to the MPH, an applicant must:

1. Hold a bachelor's degree or recognized equivalent from a regionally accredited institution and have adequate preparation in the biological, physical, or social sciences. A criterion for admission is at least a B (3.0) grade-point average or the equivalent in work completed after the first two years of a bachelor's degree program and in all post-baccalaureate course work.
2. Completion of the school's application process.
3. Submit a personal essay describing what you perceive to be pressing public health issues, why a career in the field appeals to you, and how it will use your strengths and commitment
4. Three letters of recommendation

5. Satisfactory score on the Test of English as a Foreign Language (TOEFL) is required for applicants whose first language is not English
6. Official copies of all transcripts sent to the Graduate College and unofficial copies to the School of Public Health

Degree Requirements

All students are required to complete six core courses including (18 credits): Biostatistics, Epidemiology, Fundamentals of Environmental and Occupational Health, Theoretical Principles of Health Promotion, Survey of U.S. Health Care Systems, and Fundamentals of Public Health. Additionally, all students are required to complete a Capstone Project. The Capstone Project requirement may be fulfilled by a professional paper, thesis, or internship experience. Students will also be required to take seven courses (18-21 credits) in a concentration area and complete a capstone experience (3-6 credits). The total program of study is 42 credits. A student must have at least a B (3.0) grade point average in all graduate work in order to graduate.

The MPH degree will be awarded only when all these requirements are met.

MPH Core Course Requirements - Total Credits: 18

HED 710 - Fundamentals of Public Health
EOH 740 - Fundamentals of Environmental Health
EAB 705 - Epidemiology and Public Health
HCA 701 - U.S. Health Care System: Programs and Policies
HED 705 - Theoretical Foundations in Health Promotion
EAB 703 - Biostatistical Methods for the Health Sciences

Health Promotion Concentration - Total Credits: 21

Students are required to take the following courses - Total Credits: 15

HED 700 - Contemporary Issues in Health Promotion
HED 730 - Program Evaluation in Health Promotion
HED 720 - Program Planning and Grant Writing in Health Promotion
HED 735 - Practical Applications in Health Promotions
EAB 700 - Research Methods for Public Health
OR
EPY 702 - Research Methods

Six (6) credits may be selected from the following list:

HED 607 Stress Management
HED 627 Methods in Health Education
HED 629 - Education for Sexuality
HED 630 Nutrition (credits: 3)
HED 635 Health Studies of Dangerous Drugs
HED 760 - Technology in Health Promotion

Capstone Requirement

HED 750 - Graduate Project in Health Promotion

An advisor approved course from the pool of university-approved graduate level courses.

Environmental and Occupational Health Concentration

Total Credits: 18-21

Students are required to take the following courses - Total Credits: 9

EOH 601 Environmental Toxicology
EOH 711 - Historical Perspectives in Public Health

Plus four additional courses from the following:

EAB 700 - Research Methods for Public Health
EOH 709 - Scientific/Technical Writing for the Health and Life Sciences
EOH 705 - Social Epidemiology
EOH 713 - Public Health Law
EOH 715 - Qualitative & Field Methods for Public Health
EAB 716 - The Epidemiology of Obesity
EOH 732 - Children, Development, Health, and the Environment
EOH 747 - Transmission of Infectious Disease
EOH 757 - Parasitology and Public Health
EOH 760 - Racial and Ethnic Disparities in Health
EOH 765 - Seminar in Environmental Justice and Public Health
EOH 767 - Bioaerosols and Human Health
EOH 769 - Advanced Pollution Ecology
EOH 777 - Emerging Infectious Disease
EOH 795 - Special Topics in Environmental Health
EOH 796 - Independent Study in Environmental Health

Required Capstone Project: Students must receive prior approval from their committee before registering for any capstone experiences.

EOH 793 - Internship in Environmental Health
EOH 794 - Professional Paper in Environmental Health
EOH 798 - Thesis Research

Health Care Administration and Policy Concentration - Total Credits: 18

Students are required to take the following courses

HCA 703 - Management of Health Service Organizations and Systems
HCA 705 - Health Care Accounting and Finance
HCA 706 - Strategic Management of Health Services
HCA 707 - Operations and Quality Management of Health Services
HCA 708 - Information Systems in Health Services Management

Plus one of the following 3 credit-hour course:

HCA 704 - Health Care Economics
HCA 711 - Advanced Health Care Finance
HCA 652 Health Politics and Policy
HCA 761 - Health Care Law and Ethics for Manager
HCA 680 - Organization and Management of Long-Term Care Services

OR

Other advisor approved courses from the pool of university approved graduate level courses.

Required Capstone Project

HCA 709 - Health Care Administration Capstone Course

Biostatistics and Epidemiology Concentration - Total Credits: 18

Students are required to take the following courses - Total Credits: 15

EAB 700 - Research Methods for Public Health
EAB 715 - Chronic Disease Epidemiology
EAB 725 - Epidemiology of Infectious Diseases
EAB 763 - Linear Statistical Models
EAB 783 - Multivariate Methods for the Health Sciences

Students may select from one or two of the following - Total Credits: 3-6

EOH 705 - Social Epidemiology
EAB 720 - Grant Writing for Epidemiology and Public Health Research
EAB 795 - Special Topics in Epidemiology and Biostatistics
EAB 796 - Independent Study in Epidemiology and Biostatistics
EAB Epidemiological Surveillance(3 credits)
EAB 716 - The Epidemiology of Obesity
EOH 775 - Injury Epidemiology
EAB 733 - Survey Sampling for the Health Sciences
EAB 735 - Outbreak Investigation
EAB 753 - Nonparametric Statistics for Public Health
EAB 743 - Experimental Design for the Health Sciences
EAB 773 - Survival Analysis for Public Health

Required Capstone Project - Total Credits: 3-6

Students must receive prior approval from their committee before registering for any capstone experience.

EAB 793 - Internship in Epidemiology and Biostatistics
EAB 794 - Professional Paper in Epidemiology and Biostatistics
EAB 798 - Thesis Research in Epidemiology and Biostatistics

Public Health Ph. D.

The Schools of Community Health Sciences (SCHS) at UNLV and UNR are pleased to offer a collaborative doctoral program (Ph.D.) in Public Health. The collaboration between the two schools represents a unique, statewide approach to public health training and research, drawing on complementary expertise and opportunities at both universities to create a high-quality academic program that maximizes resources and flexibility.

Educational Objectives

The Ph.D. in Public Health is designed to prepare students for careers in which advanced analytical and conceptual capabilities are required, such as university teaching, research, consulting, policy development or other high-level positions.

Students in the program can be admitted to either UNR or UNLV and will follow a common curriculum of required classes. Elective courses may be taken at either institution, and the dissertation is supervised by a chair at the admitting institution and a doctoral committee with members from either or both institutions.

The curriculum was developed jointly by faculty from the Schools of Public Health at the University of Nevada, Reno, and the University of Nevada, Las Vegas, with input from representatives of academia and the public health community. The curriculum provides a comprehensive and interdisciplinary examination of topics and experiences necessary to produce graduates who are ready to secure employment in the public health arena.

Admission Requirements-UNLV

Admission into the Public Health PhD Program through UNLV will require applicants to meet the standards of criteria of the UNLV Graduate College, applicable to all graduate students, both domestic and international, and contingent upon the qualifications of the applicant and the availability of positions. Students will be admitted once a year, for the fall semester. Applicants must have submitted all required materials by the June 1 deadline for admission in the following fall semester. Students will be admitted directly into the doctoral program and all admissions will require the final approval of the Dean of the UNLV Graduate College. In addition to the generic requirements of the UNLV Graduate College applicants will be expected to meet the following criteria:

1. Earned a bachelor's and master's degree in an appropriate field from an accredited university. Applicants educated outside of the United States will need to demonstrate proof of equivalent education and advanced degrees. Outstanding candidates without masters' degrees may be provisionally admitted at the discretion of the selection committee with the understanding that they will complete the masters' degree prior to advancement to the Ph.D. program.
2. A minimum grade point average of 3.0 (4.0=A) earned in a masters' program of study.
3. Applicants must present competitive Graduate Record Exam (GRE) scores on verbal, quantitative and analytical measures. GRE scores will be assessed relative to other applicants in the pool, as well as relative to other graduate programs at UNLV. The exam must have been taken with the institutions' graduate school/college requirements.

4. Language Competency-Applicants from countries where English is not the native language, or who do not receive a degree from an institution where English is the language of instruction must show competency in English, meeting the Graduate College or Graduate School requirements: "a minimum score of 550 on the written or 213 on the computerized Test of English as a Foreign Language (TOEFL) or 85 on the Michigan Test"
5. Letters of Recommendation- Three (3) letters of recommendation are required from individuals who can evaluate the applicant's motivation, academic capability, scholarship potential, and personal goals for doctoral study.
6. Written Self-Presentation- Applicants must submit for review a written statement of personal career, educational and scholarship goals including identification of research interests.
7. Interview-Applicants will participate in an interview with member(s) of the Admissions Committee, either in person or by telephone.

Degree Requirements

Students in the Public Health doctoral program will be afforded an array of research opportunities in which to complete their dissertation and contribute to the field of public health. Completion of the Ph.D. demonstrates that the graduate has the advanced research skills and competencies necessary to succeed in high level research careers.

All students are required to successfully complete coursework that provides a public health perspective, as well as an Area of Emphasis in a public health discipline. Students must complete 54 credits beyond a Master of Public Health (MPH), or 63 credits beyond a Master's degree in a related field for a minimum of 72 credits. Up to a maximum of 24 credits may be transferred in from a Masters degree, subject to faculty approval. Approved courses will include those taught in other disciplines and must relate to the student's area of research.

Upon admission each student will be assigned an academic (not dissertation) advisor who will help the student plan a program of study for submission to the doctoral curriculum committee

Areas of Emphasis

In addition to the core courses, students will select 27 credits from a list of SCHS courses in an identified emphasis area in accordance with the advising plan developed with their academic advisor. The 27-credit requirement includes 6 hours of seminar, taken over the course of the program. Seminars are from 1 to 3 credits, offered every semester, and cover a range of topics in the field.

Areas of Emphasis include:

Environmental and Occupational Health-available
Social/Behavioral Health-coming soon
Epidemiology and Biostatistics-under development
Health Administration and Policy-under development

Dissertation

Additionally, all candidates will complete not less than 21 dissertation credit hours, as specified in the student’s advising plan.

Program Completion Requirements

1. Credit Hours and Grade point Average

A minimum of 72 graduate coursework in public health is required. Up to a maximum of 24 credits may be transferred in from a Masters degree, subject to faculty approval. Approved courses will include those taught in other disciplines and must relate to the student’s area of research.

A grade point average of at least a 3.0 must be maintained in all courses required for the degree; no grade less than a B in any course is acceptable for curricular completion of the program.

2. Qualifying Examination: Test of Subject Matter of Program

All students are required to complete a written/oral Qualifying Examination upon completion of the core courses of the program. The examination is designed to assess the student’s ability to synthesize knowledge, as demonstrated by the selection and integration of information from several doctoral courses and is evaluated by written discussion in response to examination questions. The Qualifying Examination may only be repeated once and must be repeated within a year of the initial attempt. Students unable to pass the Qualifying Examination after a second attempt will be separated from the program.

After successful completion of the Qualifying Exam the student will identify a Dissertation committee. The committee will include at minimum, a Chairperson with expertise in the student’s Area of Emphasis; two additional committee members from the School of Community Health Sciences; and, an approved external committee member with expertise in the student’s selected area of emphasis.

3. Comprehensive Examination

Upon completion of all required course work other than dissertation, each student must take a written/oral Comprehensive Examination that will focus on those areas of knowledge most relevant to the student’s dissertation topic. Comprehensive examinations may only be repeated once and must be repeated within a year of the initial attempt. If a student fails a second attempt, the student will be separated from the program.

4. Dissertation Prospectus

Upon successful completion of the comprehensive examination, the student will submit a dissertation prospectus to his/her committee for approval. The student advances to candidacy and can register for dissertation credits and begin their independent research.

5. Final Oral Examination

Upon completion of the dissertation, the student must pass a final oral examination that involves the successful defense of their dissertation study. All advisory committee members must be present for this examination and may question the student following presentation of the study. The defense will be scheduled and conducted in accordance with the Graduate College/ School’s policies for thesis and dissertation completion. It is the student’s responsibility to file the required “Notification of Oral or Written Examination” form with the Graduate College School in a timely manner.

Environmental Required Core Courses for All Doctoral Students (27 credits): All students are required to take the following 27 credit hours or their approved equivalent:

UNLV Courses		UNR Courses
EOH 740 - Fundamentals of Environmental Health	OR	PUBH 725 - Health and the Environment
EAB 703 - Biostatistical Methods for the Health Sciences		PUBH 780 - Biostatistics in Public Health
HED 705 - Theoretical Foundations in Health Promotion		PUBH 701 - Social and Behavioral Health
EOH 747 - Transmission of Infectious Disease		PUBH 620 - Biological Basis of Health & Disease
EAB 701 Fundamentals of Epidemiology		PUBH 712 -Epidemiology in Public Health
HCA 701 - U.S. Health Care System: Programs and Policies		PUBH 755 - Policy and Health Administration
EOH XXX Ethics in Public Health		PUBH 785 - Public Health Ethics
EOH XXX Doctoral Student Seminar		PUBH XXX - Doctoral Student Seminar

Environmental & Occupational Health

Chair

Gerstenberger, Shawn

(1997) Professor and Chair of Environmental and Occupational Health; B.S. University of Wisconsin-Platteville; M.S., PhD. University of Illinois.

Graduate Faculty

Bungum, Timothy

(2001) Associate Professor of Biostatistics and Epidemiology; B.A. Luther College; M.S., DPH University of South Carolina.

Buttner, Mark P.

(1989) Associate Professor of Environmental and Occupational Health; B.S. University of Wisconsin; M.S. University of Nevada Las Vegas, PhD University of Nevada Reno.

Chino, Michelle

(2000) Associate Professor of Environmental and Occupational Health, B.S., M.S., PhD. University of New Mexico.

Cross, Chad

(2005) Associate Professor of Biostatistics and Epidemiology; B.S., Purdue University; M.S., PhD. Old Dominion University.

Cruz, Patricia

(1995) Associate Professor of Environmental and Occupational Health, B.S. University of Puerto Rico, M.S. University of Central Florida, PhD. University of Nevada Reno.

Dodge Francis, Carolee

(2007) Assistant Professor of Environmental and Occupational Health; B.S., M.A., Ed.D., University of St. Thomas.

Moonie, Sheniz

(2006) Assistant Professor of Biostatistics and Epidemiology, BS University of California San Diego; MS California Polytechnic University, Pomona; PhD Saint Louis University

Stetzenbach, Linda

(2005) Professor Emeritus of Environmental and Occupational Health; B.S., M.S., PhD. University of Arizona.

Thompson-Robinson, Melva

(2004) Associate Professor of Environmental and Occupational Health, B.S. University of Michigan, M.S., Ohio University, D.P.H. University of South Carolina.

Wong, David

(2008) Associate Research Professor. B.Sc., M.Sc. Ocean University of Qingdao, PhD. City University of Hong Kong.

The mission of the Department of Environmental and Occupational Health is to advance the health of all people in the United States and around the world through research and training in environmental health. The department emphasizes the role of air, water, the home environment, and the workplace as critical determinants of health.

Environmental & Occupational Health M.P.H.

MPH Core Requirements - Total Credits: 18

EOH 710 - Fundamentals of Public Health

EOH 740 - Fundamentals of Environmental Health

EAB 725 - Epidemiology of Infectious Diseases

HCA 701 - U.S. Health Care System: Programs and Policies

EAB 703 - Biostatistical Methods for the Health Sciences

Environmental and Occupational Health Concentration Requirements - Total Credits 18

Students are required to take the following courses - Total Credits: 9

EOH 601 - Advanced Environmental Toxicology

EOH 711 - Historical Perspectives in Public Health

Plus the additional courses (9 credits) from the following:

EOH 702 - Community Based Participatory Research Methods

EOH 709 - Scientific/Technical Writing for the Health and Life Sciences

EOH 705 - Social Epidemiology

EOH 713 - Public Health Law

EOH 715 - Qualitative & Field Methods for Public Health
or

EAB 716 - The Epidemiology of Obesity

EOH 732 - Children, Development, Health, and the Environment

EOH 757 - Parasitology and Public Health

EOH 747 - Transmission of Infectious Disease

EOH 760 - Racial and Ethnic Disparities in Health

EOH 765 - Seminar in Environmental Justice and Public Health

EOH 767 - Bioaerosols and Human Health

EOH 769 - Advanced Pollution Ecology

EOH 775 - Injury Epidemiology

EOH 777 - Emerging Infectious Disease

EOH 795 - Special Topics in Environmental Health

EOH 796 - Independent Study in Environmental Health

HPS 680 - Industrial Hygiene

HPS 781 - Industrial Hygiene II

or

Other advisor approved courses from EOH or EAB, or from the pool of university-approved graduate level courses.

Required Capstone Project - Total Credits: 3-6

Students must receive prior approval from their committee before registering for any capstone experiences:

EOH 793 - Internship in Environmental Health

EOH 794 - Professional Paper in Environmental Health

EOH 798 - Thesis Research

Additional Credits: 3-9 (TBA)

Epidemiology and Biostatistics Concentration

Requirements - Total Credits: 18

Students are required to take the following courses - Total Credits: 12

EAB 700 - Research Methods for Public Health

EAB 715 - Chronic Disease Epidemiology

EAB 763 - Linear Statistical Models

EAB 783 - Multivariate Methods for the Health Sciences

And complete two additional courses (6 credits) from the following:

EAB XXX - Public Health Surveillance

EOH 713 - Public Health Law

EAB 720 - Grant Writing for Epidemiology and Public Health Research

EOH 709 - Scientific/Technical Writing for the Health and Life Sciences

EOH 705 - Social Epidemiology

EOH 795 - Special Topics in Environmental Health

EOH 796 - Independent Study in Environmental Health

Required Capstone Project - Total Credits - Total Credits: 3

Students must receive prior approval from their committee before registering for any capstone experiences:

EOH 793 - Internship in Environmental Health

EOH 794 - Professional Paper in Environmental Health

EOH 798 - Thesis Research

Course Descriptions

EOH 702 - Community Based Participatory Research Methods

Credits 3

Teaches the philosophy and methods of community based participatory research. Focus on traditional research methods and their application to community health research as well as strategies for developing research partnerships, community consent, and essential competencies for research with diverse communities.

EOH 705 - Social Epidemiology

Credits 3

Focuses on the social determinants of health and the health implications of social phenomena such as class, discrimination, and work. Students will examine life course hypotheses and the impact of early exposure to disease in later life as well as intervention strategies that incorporate social change elements. Prerequisite: Core epidemiology class.

EOH 709 - Scientific/Technical Writing for the Health and Life Sciences

Credits 3

Technical writing skills are critical to success in publication of scientific journal articles, approval of research grant submissions, and acceptance of thesis/dissertation requirements. In this course students will study techniques and develop skills in technical writing useful to professionals in health care and life sciences.

EOH 710 - Fundamentals of Public Health

Credits 3

Introduces students to public health concepts and practice. Provides broad overview of the field of public health and focused look at core areas of health promotion and education, environmental health, epidemiology and biostatistics, and health care administration in the public health arena.

EOH 711 - Historical Perspectives in Public Health

Credits 3

Significant events and legendary people have shaped modern public health. In this course students will study historical events and people, and present written and oral discussions of selected topics including how these events impact modern public health.

EOH 713 - Public Health Law

Credits 3

Examines the history of public health law and the role, authority and limitations of government to enact and enforce such laws. Students will examine the development of public health laws and the relationship between government entities in carrying out the laws.

EOH 715 - Qualitative & Field Methods for Public Health

Credits 3

This course will provide students with the content/skills needed to conduct community-based participatory field research. This course will explore several topics related to qualitative research: theoretical aspects of qualitative research, negotiating community, designing the study, ethnographic observations, triangulating data, and writing a field study report.

EOH 717 - Food Safety and Public Health

Credits 3

Foodborne illness has a significant impact on public health. In this course students will study microbiological and chemical aspects of food safety including factors that affect growth or organisms in food and production of toxins that can result in foodborne illness.

EOH 732 - Children, Development, Health, and the Environment

Credits 3

Focuses on health issues specific to children age 0-18, such as abuse and neglect, insurance, nutrition, immunization, mental health, substance abuse, sexuality and chronic disease. Students will examine the unique status of children in the public health system as well as systemic approaches to improving services and policies. **Prerequisites:** MPH core classes.

EOH 735 - Outbreak Investigation

Credits 3

Students will work through simulated outbreak situations, culminating in a lengthy simulation of an outbreak. Students will be responsible for all aspects of the investigation including report writing. Through partnership with community health agencies, students will have the opportunity to assist in actual outbreak investigations occurring during the semester.

EOH 740 - Fundamentals of Environmental Health

Credits 3

This course will address chemical, physical and biological factors in the environment and their relationship to the health of the human population.

EOH 745 - Epidemiology & Biostatistics

Credits 3

Students will explore systems currently in place, both in the United States and internationally, and will learn methodology used to analyze surveillance data. Students will learn about the effective surveillance systems through lecture and case studies of existing surveillance systems. Same as EAB 745 **Prerequisites:** HED 725/EAB 705 or equivalent

EOH 747 - Transmission of Infectious Disease

Credits 3

Exposure to disease causing microorganisms occurs via inhalation, ingestion, and dermal contact. Students will study transmission of selected microorganisms via the air, water, food, vectors, and person-to-person contact.

EOH 757 - Parasitology and Public Health

Credits 3

Parasitic infections resulting from exposure to parasites that invade the intestine, blood, or tissues of humans can result in serious disease. This course will discuss a variety of human parasites, resulting disease, and treatment and control strategies to minimize exposure and health impacts.

EOH 760 - Racial and Ethnic Disparities in Health

Credits 3

Explore the causes of health disparities and potential remedies for health-related inequities that associate with race, ethnicity, social class and culture. Students will develop skills necessary to recognize personal and institutionalized bias which interferes with clinical decision-making, health policy, and health system structural development.

EOH 765 - Seminar in Environmental Justice and Public Health

Credits 3

Explores the impact of environmental hazards on community health and examine strategies for developing justice resources and effective policy change. Students will examine actual cases and their health and policy outcomes. Focus on community based strategies for research, advocacy, and environmental change. **Prerequisites:** :EOH and MPH core classes.

EOH 767 - Bioaerosols and Human Health

Credits 3

Bioaerosols are biological materials that can elicit adverse health effects when humans are exposed in indoor and outdoor environments. This course will present the physical and environmental parameters that affect the dispersal, transport, and survival of bioaerosols, detail specific bioaerosols of concern, and discuss the human health impacts of exposure.

EOH 769 - Advanced Pollution Ecology

Credits 3

This course will address the major effects of pollution on aquatic organisms and ecosystems. **Prerequisites:** EOH 740 or permission of instructor.

EOH 775 - Injury Epidemiology

Credits 3

This course will teach students about the epidemiology of intentional and unintentional injury. The course will include the basic concepts of injury prevention, injury surveillance, strategies for injury control, developing injury prevention programs, and designing injury research and evaluation. **Prerequisites:** Core Epidemiology and Research Methods.

EOH 777 - Emerging Infectious Disease

Credits 3

Re-emerging and newly recognized/emerging infections diseases are having a significant on public health world-wide. This course will present a variety of new diseases resulting from exposure to emerging and re-emerging microbial pathogens and suggested treatment and control strategies to minimize exposure and health impacts.

EOH 790 - Current Topics in Environmental Health and Epidemiology

Credits 1-3

This is an advanced seminar course directed by members of the Department of Environmental and Occupational Health and the Epidemiology and Biostatistics Program. Seminars will be facilitated by faculty members based on their particular areas of research interest and expertise. Same as EAB 790

EOH 793 - Internship in Environmental Health

Credits 1 – 3

The environmental internships is one of the capstone experiences for the MPH degree and is intended to provide students with applied work experience in a local agency, organization, center or institute. Note: May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Public Health or consent of instructor.

EOH 794 - Professional Paper in Environmental Health

Credits 3

This capstone experience provides the opportunity for a graduate degree candidate to be involved in an in-depth project either written or experimental in nature. A formal paper and presentation describing the project culminate this experience. Note: May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Public Health or consent of instructor.

EOH 795 - Special Topics in Environmental Health

Credits 1 – 3

Selected topic of current interest not covered in any existing courses in environmental and occupational health.

Note: May be repeated to a maximum of six credits.

Prerequisites: Admission to the School of Public Health or consent of instructor.

EOH 796 - Independent Study in Environmental Health

Credits 1 – 3

Independent study of a selected topic in Environmental and Occupational Health. Note: May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Public Health or consent of instructor

EOH 798 - Thesis Research

Credits 1 – 6

Note: May be repeated, but a maximum of six credits will apply towards the student's degree program. Grading S/F grading only.

EOH 799 - Dissertation

Credits 3-6

Dissertation in Environmental and Occupational Health

Note: May be repeated to a maximum of 12 credits

Prerequisites: PhD standing

Health Care Administration & Policy

Chair

Moseley, Charles

(1991) Associate Professor of Health Care Administration; Ph.D., Virginia Commonwealth University.

Graduate Coordinator

Cochran, Christopher

(1997) Associate Professor of Health Care Administration; B.A. University of Texas, El Paso; M.P.A., Ph.D., University of South Carolina.

Graduate Faculty

Ginn, Gregory

(2000) Associate Professor of Health Care Administration; B.A., M.Ed., MBA, Ph.D., University of Texas, Austin.

Shen, Jie

(2006) Associate Professor of Health Care Administration and Policy; Ph.D., Virginia Commonwealth University.

The Health Care Industry is one of the three largest industries in the United States based on revenues, total assets or number of employees. Opportunities for employment in health care organizations are abundant in the Las Vegas Valley.

Job opportunities occur in the following types of organizations:

- Hospitals
- Ambulatory care facilities
- Long-term care facilities
- Medical practices
- Insurance companies
- Public health agencies
- Mental health programs
- Managed care organizations
- Community health programs

Students in the Health Care Administration M.H.A. gain a broad view of the health care delivery system and develop an understanding of health and disease. They develop analytical skills through the curriculum and internships to prepare them for leadership positions in the organization, financing, and delivery of health care services.

Health Care Administration M.H.A.

The Master of Health Care Administration Degree Program is the only graduate Health Care Administration program in the Nevada Public University System (NSHE). The MHA will prepare students to assume leadership roles in health care organizations. The degree is recognized in the health care field as an important credential that allows graduates to assume health care management positions. The curriculum is developed to include all the critical competencies for health care leadership, including issues of health care delivery, health care finance, ethical and legal issues in health care administration and management topics. Students and faculty will contribute through research and service to the knowledge and applications of management in health care; and they will use their education and expertise to help meet the health care management needs of the State of Nevada and beyond.

Admission Requirements

To be considered for admission, an applicant must meet Graduate College standards and:

1. Hold a bachelor's degree or recognized equivalent from a regionally accredited institution. A criterion for admission is at least a B (3.0) grade point average, or equivalent in work completed after the first two years of a bachelors degree program, and in all post-baccalaureate course work. An applicant who does not meet this academic criterion may request special consideration.
2. Submit a one to two page personal essay describing why they want to pursue a career in health care management
3. Submit three letters of recommendation
4. Submit a resume
5. In addition, a satisfactory score on the Test of English as a Foreign Language (TOEFL) is required for applicants whose first language is not English.

MHA required courses

HCA 701 - U.S. Health Care System: Programs and Policies
HCA 703 - Management of Health Service Organizations and Systems

HCA 704 - Health Care Economics
HCA 705 - Health Care Accounting and Finance
HCA 706 - Strategic Management of Health Services
HCA 707 - Operations and Quality Management of Health Services
HCA 708 - Information Systems in Health Services Management
HCA 710 - Human Resources Management of Health Care Organizations
HCA 711 - Advanced Health Care Finance
HCA 713 - Internship in Health Care Administration
HCA 715 - Health Services Research Methods
HCA 761 - Health Care Law and Ethics for Managers
EAB 703 - Biostatistical Methods for the Health Sciences
TBA Essentials of Public Health (credits:3)
HCA 709 - Health Care Administration Capstone Course
OR
HCA 799 - Thesis Research

Course Descriptions

HCA 701 - U.S. Health Care System: Programs and Policies

Credits 3

Examines the manpower, financing and major service components of the US health care system. Addresses major issues of health care access, costs, and quality of care. Special emphasis on the role of government regulation and public policy in the system. **Prerequisites:** : Graduate standing.

HCA 702 - Epidemiology in Health Services Management

Credits 3

Examination and synthesis of concepts and an application of methods appropriate to epidemiology from a managerial perspective. Scope, potentialities and limitations of traditional epidemiology principles and evaluation of epidemiology information and approaches in health administration practice.

HCA 703 - Management of Health Service Organizations and Systems

Credits 3

Theories and practice of the management of health services. Analysis and evaluation of the management functions and roles, organizational theories and behavioral perspectives and health care policy issues as they apply to health services management.

HCA 704 - Health Care Economics

Credits 3

Application of economic theory to study of health markets and institutions. Impact of insurance on demand for and supply of health care analyzed. Competition and regulation as forces in health care industry discussed from an economic perspective. **Prerequisites:** : Three hours undergraduate microeconomics or consent of instructor.

HCA 705 - Health Care Accounting and Finance

Credits 3

Introduction to financial and managerial accounting in the context of the health care industry. Also introduces concepts from finance for use in the decision making process.

Prerequisites: : Admission to the MPH program, MHA program, or consent of instructor.

HCA 706 - Strategic Management of Health Services

Credits 3

Emphasis on concepts of strategic and operational management for health care organizations. Also covers managerial epidemiology and marketing. Utilizes case studies. **Prerequisites:** : HCA 705

HCA 707 - Operations and Quality Management of Health Services

Credits 3

Introduces concepts of operations management in the context of the health care industry. Covers analytical techniques in the context of quality management.

Prerequisites: : Graduate standing.

HCA 708 - Information Systems in Health Services Management

Credits 3

Understanding of computerized needs of health services managers. Examines decision making process, information needs of various decisions and how “decision support systems” meet these needs. Major types of information systems examined, include financial, patient care & strategic management systems. **Prerequisites:** : Graduate standing.

HCA 709 - Health Care Administration Capstone Course

Credits 3

Capstone experience provides the Health Care Administration graduate degree candidate the option to select one of the following: an indepth project or a comprehensive examination. Same as HED 710/EAB 710/EOH 710 Note: The project option requires a formal paper and a presentation. Grading S/F grading only

Prerequisites: : Last semester in program or consent of instructor.

HCA 710 - Human Resources Management of Health Care Organizations

Credits 3

Covers structural and behavioral systems and human resources process systems. Taught from the perspective of strategic management and in the context of the legal environment for health care organizations.

HCA 711 - Advanced Health Care Finance

Credits 3

Further study of financial management in the context of the health care industry. **Prerequisites:** : HCA 705 or the equivalent.

HCA 713 - Internship in Health Care Administration

Credits 3 – 6

Provides students with an applied work experience in a local health services organization. Course is faculty supervised and requires written reports and other structured assignments. Note: May be repeated to a maximum of six credits. **Prerequisites:** : Consent of instructor.

HCA 715 - Health Services Research Methods

Credits 3

Course examines health services research concepts and methods. Topics include: health services research relevance; research study conceptualization; research design, operationalization and analysis; and the review of the health services research literature. Emphasis on research relevant to the practice of health care management. **Prerequisites:** : EAB 703

HCA 761 - Health Care Law and Ethics for Managers

Credits 3

Course examines legal and ethical issues that impact health care management. Topics include: liability, contract and antitrust law; employee and labor law, professional relations, and ethical issues regarding; beginning and end of life, patient rights, medical research, access to care; conflict of interest, and confidentiality.

HCA 798 - Independent Study

Credits 1 – 3

Independent study in a specific area of student interest under the direction of a faculty member. Note: May be repeated to a maximum of six credits. Grading S/F grading only.

Prerequisites: : Consent of instructor.

HCA 799 - Thesis Research

Credits 3

Note: May be repeated, but a maximum of six credits will apply towards the student's degree program. Grading S/F grading only. **Prerequisites:** : Consent of HCA& P Department Chair, graduate courses in research methodology and in statistics.

Health Promotion

Chair

Gerstenberger, Shawn

(1997) Associate Professor and Chair of Environmental and Occupational Health; B.S. University of Wisconsin-Platteville; M.S., Ph.D. University of Illinois.

Graduate Coordinator

Thompson-Robinson, Melva

(2004), Associate Professor; B.S., University of Michigan; M.S.P.E., Ohio University; Dr. PH., University of South Carolina.

Graduate Faculty

Bungum, Timothy

(2001) Associate Professor of Biostatistics and Epidemiology; B.A. Luther College; M.S., D.P.H. University of South Carolina.

Buttner, Mark P.

(1989) Associate Professor of Environmental and Occupational Health; B.S. University of Wisconsin; M.S. University of Nevada Las Vegas, PhD University of Nevada Reno.

Chino, Michelle

(2000) Associate Professor of Environmental and Occupational Health, B.S., M.S., Ph.D. University of New Mexico.

Cochran, Christopher

(1997) Associate Professor of Health Care Administration and Policy; B.A. University of Texas, El Paso; M.P.A., Ph.D. University of South Carolina.

Cross, Chad

(2005) Associate Professor of Biostatistics and Epidemiology; B.S., Purdue University, M.S., Ph.D. Old Dominion University.

Dodge Francis, Carolee

(2007) Assistant Professor of Environmental and Occupational Health; B.S., M.A., Ed.D., University of St. Thomas.

Ginn, Gregory

(2000) Associate Professor of Health Care Administration and Policy; B.A., M.Ed., MBA, Ph.D. University of Texas, Austin.

McNab, Warren

(1979), Professor; B.S., M.S., Mankato State University; Ph.D., Southern Illinois University.

Moonie, Sheniz

(2006) Assistant Professor of Biostatistics and Epidemiology, BS University of California San Diego, MS California Polytechnic University, Pomona, PhD Saint Louis University

Moseley, Charles

(1991) Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University.

Regin, Charles

(1987), Assistant Professor; B.S., M.S., University of Wisconsin-La Crosse; Ph.D., Southern Illinois University at Carbondale.

Shen, Jie

(2006) Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University.

Wong, David

(2008) Associate Research Professor. B.Sc., M.Sc. Ocean University of Qingdao, PhD. City University of Hong Kong.

Master of Education in Health Promotion

The goal of the 36-semester credit hour Health Promotion graduate program is to provide students with the theory, knowledge, and skills needed to integrate the principles of health promotion into a variety of community, research, clinical, business or school settings and/or to pursue advanced study. Specifically, the Health Promotion degree program will prepare students to: 1) assess and communicate individual, family, and community needs, 2) plan, implement, evaluate, and administer programs, 3) act as a resource person by coordinating provisions for services and applying appropriate research principles and methods, and 4) advance the goals of job-related professional organizations. To this end, eight concentrations in the Health Promotion degree are offered.

The Administration concentration is designed for those interested in assuming leadership roles in their organization such as health program planners, health care project specialists, or health officers. The Communication concentration is designed for individuals interested in the dissemination of health promoting information and skills through varied strategies leading to health media specialist or health communication expert occupations.

The Counseling concentration is designed for anyone wishing to assist others one on one or in small groups regarding effective and positive strategies dealing with critical health issues. Such professionals include, but are not limited to, employee assistance program educators, patient educators, or mental health counselors.

The Education concentration is designed to improve the delivery skills of any educator at any teaching level, at varied sites such as school health teachers, public health educators, and employee wellness associates.

The Environmental Health concentration is designed for those individuals seeking occupations such as health and safety specialists or environmental health consultants due to an interest in the relationship that exists between the

physical environment and the health of individuals and groups in that environment.

The Gerontology concentration is designed for individuals who are interested in health promotion strategies geared specifically for older adults delivered through professional roles such as gerontology outreach workers or program planners for seniors.

The Nutrition and Fitness concentration is designed for those interested in the fields of corporate health promotion or personal wellness training who desire to advise individuals and groups regarding eating choices and activity regimens to enhance performance and health.

The Interdisciplinary concentration, clearly the most flexible, is designed for those students with specific needs who would be best served by selecting a myriad of graduate courses from across campus. Individuals such as school nurses, epidemiologists, and industrial hygienists could benefit from the individualized approach offered in this concentration.

Admission Requirements

In addition to meeting the admission requirement of the Graduate College as outlined in the front of this catalog, applicants must also meet the requirements established by Department of Health Promotion faculty.

1. Interested applicants to the Master of Education degree in Health Promotion should have an undergraduate major in any health or allied health academic discipline. If admission is sought by students who have not earned a major described above, up to credits of additional HED 600-level course work may be required. These deficiencies do not count toward degree requirements.
2. Applicants must have a minimum overall undergraduate grade point average (GPA) of 3.00 on a 4.00 scale during their last 60 credits of undergraduate work.
3. An application for admission must be obtained from the Graduate College. Official transcripts of all colleges and universities attended should be submitted to the Graduate College and Department.
4. Two letters of recommendation, a two-page statement of professional goals, and a current vita should be submitted directly to the Department of Health Promotion.

Applications are processed when all credentials required by both the Graduate College and the Department of Health Promotion have been received and evaluated. The Graduate College will officially notify students of their acceptance. Additionally, the Department of Health Promotion staff will notify students of their advisor, who will work with the student to develop the individual plan of study. Application deadlines include: March 15 for summer enrollment, July 1 for fall enrollment, and November 15 for spring enrollment.

For details of the Master of Public Health program, please see the School of Public Health information. The

Department of Health Promotion offers the Master of Education (Health Promotion M.Ed.) a Master of Public Health (Public Health M.P.H.) degrees with an emphasis in Health Promotion.

Health Promotion M.Ed.

Degree Requirements

The Master in Education in Health Promotion requires a minimum of 36 semester hours.

1. A student must maintain a 3.00 GPA.
2. A student may take courses full or part time, with day and evening classes available.
3. Students must either take a comprehensive exam and successfully complete an additional three credits of advisor approved course work or successfully complete HED 750 Graduate Project in Health Promotion to fulfill the requirement of a capstone experience in the degree program.
4. Master's degrees must be completed within a six-year period, and continuous enrollment must be maintained throughout the six years.

Curriculum

The curriculum for the M.Ed. in Health Promotion consists of the following:

Health Promotion Core Requirements - Total Credits: 12

HED 705 - Theoretical Foundations in Health Promotion
HED 720 - Program Planning and Grant Writing in Health Promotion
HED 730 - Program Evaluation in Health Promotion
HED 735 - Practical Applications in Health Promotions

Health Promotion Research Core Requirements - Total Credits: 9

HED 725 - Epidemiology and Public Health
or
EAB 705 - Epidemiology and Public Health
or
EPY 702 - Research Methods
or
EAB 700 - Research Methods for Public Health
EPY 718 - Qualitative Research Methodologies
or
EOH 715 - Qualitative & Field Methods for Public Health
or
EPY 721 - Descriptive and Inferential Statistics: An Introduction
or
EAB 703 - Biostatistical Methods for the Health Sciences

Health Promotion Capstone Experience - Total Credits: 3

HED 750 - Graduate Project in Health Promotion
or
Comprehensive Exam and advisor approved course(s)
or
HED 755 - Thesis Research

Selected Concentrations - Total Credits: 12

Administration Concentration

HCA 701 - U.S. Health Care System: Programs and Policies
HCA 703 - Management of Health Service Organizations and Systems
HCA 704 - Health Care Economics
HCA 705 - Health Care Accounting and Finance
HCA 707 - Operations and Quality Management of Health Services
HCA 708 - Information Systems in Health Services Management
HCA 710 - Human Resources Management of Health Care Organizations
HCA 761 - Health Care Law and Ethics for Managers
PUA 701 - Principles of Public Administration
PUA 704 - Seminar in Fiscal Administration
PUA 713 - E-Government Implications for Public Sector Organizations
PUA 708 - Seminar in Public Personnel Administration
PUA 719 - Personnel Assessment and Selection
PUA 740 - Urban Administration
PUA 742 - State Government Administration
PUA 792 - Current Issues in Public Administration
See the Department of Health Promotion for additional curricular information.

Communication Concentration

COM 603 - Public Communication
COM 604 - Principles of Persuasion
COM 607 - Communication Between the Sexes
COM 616 - Conflict Management
COM 684 - Political Communication
COM 706 - Seminar in Intercultural Communication
COM 710 - Survey of Communication Studies
COM 712 - Research Methods II
COM 725 - College Teaching in Communication
COM 730 - Theories of Communication
COM 741 - Social Movements as Rhetorical Form
COM 780 - Persuasion
COM 781 - Seminar in Argumentation
COM 784 - Political Communication
COM 789 - Selected Topics in Communication

See the Department of Health Promotion for additional curricular information.

Counseling Concentration

COU 610 - Eating Disorders: Etiology and Treatment
CED 639 - Problem Gambling Counseling I

CED 640 - Problem Gambling Counseling II
CED 645 - Trauma and Addiction
CED 661 - Use and Application of Technology in Counseling
CED 699 - Special Topics
CED 700 - Special Problems: Counseling and Educational Psychology
CED 701 - Introduction to Counseling
CED 703 - Counseling with Expressive Arts and Activities
CED 710 - Relationships Through the Lifespan
CED 711 - Counseling Appraisal and Inquiry
CED 713 - Introduction to School Counseling
CED 715 - Counseling and Consultation Theories
CED 721 - Career Theories and Practices
CED 727 - Counseling Process and Procedures
CED 733 - Introduction to Group Counseling
CED 735 - Substance Abuse Prevention and Treatment
CED 738 - Introduction to Community Mental Health Counseling
CED 739 - Vocational Placement and Community Resources
CED 742 - Introduction to Community Counseling
CED 743 - Ethical and Legal Issues in Counseling
CED 745 - Assessment, Treatment, and Case Management in Addictions
CED 755 - Planning, Management, and Evaluation of Addictions and Mental Health Programs
CED 766 - Psychopathology and Wellness Models in Counseling
CED 772 - Counseling and Spirituality
CED 781 - Problem Gambling Counseling
CED 782 - Counseling with Potential Suicides
CED 785 - Eating Disorders Counseling
CED 789 - The Student in Higher Education

See the Department of Health Promotion for additional curricular information.

Education Concentration

EDW 746 - History and Development of Two Year Postsecondary Institution
EDW 747 - Workforce Education Teaching
CIG 660 - Multicultural Education
CIG 662 - Theory and Research Multicultural Education
CIT 602 - Technology Applications Secondary Curriculum
CIT 620 - Integrating Technology in Teaching and Learning
CIG 601 - Curriculum and Instruction Urban Settings
HED 607 - Stress Management
SW 622 - AIDS: An Interdisciplinary Perspective

See the Department of Health Promotion for additional curricular information.

An Interdisciplinary Perspective

HED 629 - Education for Sexuality
HED 630 - Nutrition
HED 635 - Health Studies on Dangerous Drugs
HED 640 - Health Promotion and Wellness
ECE 709 - Investigations in Early Childhood Education
ESP 701 - Introduction to Special Education and Legal Issues

See the Department of Health Promotion for additional curricular information.

Environmental Health Concentration

EOH 702 - Community Based Participatory Research Methods
EOH 711 - Historical Perspectives in Public Health
EOH 713 - Public Health Law
EOH 732 - Children, Development, Health, and the Environment
EOH 740 - Fundamentals of Environmental Health
EOH 747 - Transmission of Infectious Disease
EOH 757 - Parasitology and Public Health
EOH 760 - Racial and Ethnic Disparities in Health
EOH 765 - Seminar in Environmental Justice and Public Health
EOH 767 - Bioaerosols and Human Health
EOH 769 - Advanced Pollution Ecology
EOH 777 - Emerging Infectious Disease
EOH 601 - Advanced Environmental Toxicology

See the Department of Health Promotion for additional curricular information.

Gerontology Concentration

Students may select one (3 credits) of the remaining courses:

THTR 793 - Special Topics in Theatre
SOC 684 - Sociology of Death and Dying: (Spring and sometimes Summer)
SOC 682 - Aging and Social Policy

See the Department of Health Promotion for additional curricular information.

For those students wishing to complete the coursework for a Certificate in Gerontology, the following must be completed:

PSY 442 - Psychology of Aging (prerequisite PSY 101) usually offered every semester and the Summer
KIN 461 - Physical Activity in Aging-(usually offered every year, varies between Fall and Spring)
KIN 462 - Adult Development in Aging (usually offered every year varies Between Fall and Spring)
NUR 486 - Aging and Social Policy (every Spring)

Nutrition and Fitness Concentration

KIN 605 - Sports Nutrition

KIN 685 - Physical Activity and the Law
KIN 691 - Exercise Physiology
KIN 737 - Biomechanics of Strength
KIN 739 - Evaluation of Physical Working Capacity
KIN 740 - Advanced Exercise Physiology
KIN 745 - Human Energy Metabolism

See the department for additional curricular information.

Interdisciplinary Concentration

In addition to the courses listed above, students may select, with guidance and approval from their advisor, any graduate-level course that meets individual and professional needs identified by students. The core courses in health promotion also provide substantive contributions to other graduate programs offered across campus. These programs include, but are not limited to, those programs offered by the College of Business and the departments of Communication Studies, counseling, Curriculum and Instruction, Economics, Educational Leadership, Kinesiology, Political Science, Psychology, Public Administration, Sociology, Special Education and the Schools of Journalism and Media Studies and Social Work.

The design of the concentration component must revolve around a consistent theme and be relevant to the goals and objectives of the program and of the student. Design is to ensure a breadth and depth in a supportive area of concentration such as curriculum and instruction, special education, health promotion, school athletic administration, educational leadership, education administration, sport and recreational management, and psychology of sport.

Course Descriptions

HED 700 - Contemporary Issues in Health Promotion

Credits 3

Selected studies in health promotion, health education or health-related area addressed through readings, discussions, and/or presentations. Formerly (HED 780) Note: Specific topic(s) announced in the schedule of classes. May be taken up to a maximum of six credits. **Prerequisites:** Graduate standing, consent of instructor and/or degree program advisor.

HED 705 - Theoretical Foundations in Health Promotion

Credits 3

Study of the social, cultural, demographic, political, and educational foundations of health promotion. Professional and practice settings in health promotion reviewed. Traditional and contemporary concepts of treatment, intervention, and prevention as applied to health promotion investigated.

HED 710 - Fundamentals of Public Health

Credits 3

Introduces students to public health concepts and practice. Provides broad overview of the field of public health and focused look at core areas of health promotion and education, environmental health, epidemiology and biostatistics, and health care administration in the public health arena.

HED 720 - Program Planning and Grant Writing in Health Promotion

Credits 3

Principles of program planning based on assessing individual and community needs and techniques to evaluate the effectiveness of health promotion programs. Also designed to analyze the process to obtain fiscal resources through grants, contracts, and other internal and external sources. **Prerequisites:** HED 700, 705

HED 725 - Epidemiology and Public Health

Credits 3

Explores principles related to the distribution and causality of disease. Focuses on etiology, prevention and control of communicable and chronic human disease. Participants trained in basic epidemiological methodology, featuring case-series, case-control, experimental and cohort study Same as HED 725/EAB 705

HED 730 - Program Evaluation in Health Promotion

Credits 3

Provides overview of processes and skills required to effectively evaluate health programs. Formative, summative, process, and outcome evaluation methods discussed for application in a variety of professional settings. Includes socio-cultural, political, administrative, and ethical issues in conducting evaluation. Formerly (HED 715 **Prerequisites:** HED 700, 705, 720

HED 735 - Practical Applications in Health Promotions

Credits 3

Identification and development of methods and strategies within the health education system which influence decisions about personal, family, organizational, and community health promotion. Emphasis on developing competency in planning and implementation of classrooms and clinical teaching strategies and health information dissemination. **Prerequisites:** HED 700, 705, 720

HED 750 - Graduate Project in Health Promotion

Credits 3

Capstone experience provides health promotion graduate degree candidate with opportunity to be involved with indepth project either written, experiential, or combination in nature. Planned and carried out under graduate faculty approval and supervision.

HED 755 - Thesis Research

Credits 1-9

May be repeated, but a maximum of 9 credits will apply towards the student's degree program. Grading S/F grading only. **Prerequisites:** HED 735

HED 760 - Technology in Health Promotion

Credits 3

Use of current technology as it relates to health issues. Provides knowledge and skills to the health professional to enhance utilization of technology applications.

HED 785 - Independent Study in Health Promotion

Credits 1 – 3

Individually arranged study of areas of health promotion not covered in depth in other courses. Note: May be repeated up to a maximum of six credits. **Prerequisites:** Consent of instructor and graduate program advisor.

School of Dental Medicine

The UNLV School of Dental Medicine, which accepted its Inaugural Class in August of 2002, has been 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 will be accomplished through a competency based curriculum with a special emphasis on biomedical sciences, professional studies and an innovative vertically integrated team approach for clinical instruction and delivery of patient care. The School of Dental Medicine is recruiting and employing a diverse and distinguished faculty to facilitate the program. The competency-based education program has at its core a student and patient entered environment designed to maximize learning and patient care delivery. Beginning dentists will be exposed to in depth studies of biological and clinical sciences as well as biomedical and bio-ethical disciplines. Students will encounter a broad spectrum of clinical experiences to prepare them for entry into the profession. These experiences will begin in year one of the curriculum and clinical responsibilities will expand in scope and depth throughout the four years. During year four, students will have the opportunity to select placement in a variety of clinically supervised community settings. They will also have extensive exposure to business and financial management designed to meet the challenges of dental practice. Furthermore, they will be introduced to principles of research, will have an opportunity to conduct independent research and will be encouraged to pursue scholarly activities with the possibility of creating a career in academic dentistry. Training will occur in state of the art facilities designed to achieve the goals of the dental academic program. The dental school is adopting this new reality and keeping it at the forefront as it designs the

teaching facility at the UNLV Shadow Lane campus. The building is part of a regional campus that is expected to house the university's biotech research center, including the UNLV Cancer Institute. Students will have access to the latest technology with other health care professionals in diagnosing disease and treating patients. By the time of graduation, students will be competent and confident to begin a rewarding career as a provider of comprehensive oral health care. For additional information, visit <http://dentalschool.unlv.edu>.

Karen P. West, Dean

(2006), D.D.M., University of Louisville; M.P.H., University of South Carolina.

School of Nursing

Welcome to the School of Nursing at UNLV. Our nursing program is the oldest in southern Nevada and the only one in Nevada to offer a Ph.D. program. All of our graduate programs are web-based to allow for "anytime, anyplace" education, but may involve occasional visits to campus. In our Masters of Science program, there are currently three tracks, the Family Nurse Practitioner Track, the Pediatric Nurse Practitioner Track, and the Nurse Educator Track. We also offer post-masters certificates in these areas. Family Nurse Practitioners provide primary care for individuals across the lifespan and many provide care to the indigent and uninsured populations. Pediatric Nurse Practitioners provide primary care for infants, children, and adolescents. The Nurse Educator program prepares nursing students to teach nursing. This provides more qualified faculty so that all of the area nursing schools may increase their enrollment. The MS program is growing rapidly because of the great need for advanced practice nurses and nurse educators in Nevada.

We also offer a web-based Ph.D. program. This program is research-focused and will help meet the need for more highly qualified faculty in Nevada and the surrounding states. If you are considering a position as a nurse educator and researcher, this web-based program may meet your needs.

We are rapidly expanding our research activities and have a number of well-funded graduate assistant positions available for full time students. In this role, graduate students work closely with faculty on their research, teach undergraduate classes, or supervise students in the clinical setting. It is a wonderful opportunity to enhance your education. UNLV's School of nursing received full re-accreditation through the year 2010 from the National League for Nursing Accreditation Commission (NLNAC), the longest established accrediting body of nursing education programs in the country. It is the maximum period awarded by the NLNAC.

I encourage you to read the catalog and explore our website to find out more about all of these programs and to visit us when you are in the Las Vegas area.

Carolyn Yucha, Dean

Professor; BS SUNY Albany; MS SUNY Buffalo; Ph.D. SUNY, Health Sciences Center, Syracuse, NY.

Associate Dean for Academic Affairs

Smyer, Tish

(2006), Associate Professor; BS, University of Arkansas Medical Center; MS University of California Los Angeles; DNSc University of California Los Angeles.

Associate Dean for Research

Schneider, Barbara St. Pierre

(2006), Associate Professor; BS Louisiana State University; MN, University of Washington; DNSc, University of California Los Angeles.

Psychosocial Nursing Department Chair

Candela, Lori

(1999), Associate Professor; BS Metropolitan State College; MS, University of Colorado; EdD University of Southern California.

Physiological Nursing Department Chair

Kowalski, Susan

(1994), Associate Professor; BS Northern Illinois University; MS Boston College; MBA Rockford College; Ph.D. Texas Women's University.

MSN Coordinator

Maes, Cheryl

(2004), Lecturer; BS, MS University of Nevada, Las Vegas. Director, St. Jude Program

Alpert, Patricia

(1991), Assistant Professor; BS, MS, MPH University of Hawaii; DrPH Loma Linda University

Ph.D. Coordinator

Xu, Yu (Philip)

(2005), Professor; BA, Henan University; MS, University of South Alabama; Ph.D., SUNY Buffalo.

Graduate Faculty

Angosta, Alona

(2005), BSN, University of Nevada, Las Vegas; MSN, University of Nevada, Las Vegas.

Bondmass, Mary

(2004), Assistant Professor; BS, MS., Loyola University; Ph.D., University of Illinois Chicago.

Bowles, Cheryl

(1984), Professor; BS, MS, University of Illinois; EdD, Northern Illinois University.

Clark, Michele
(2006). Associate Professor; BS University of California San Francisco; MS, Ph.D. University of Arizona.

Cyrkiel, Dianne
(2000), Lecturer; BS. Indiana University; MS University of Texas, San Antonio.

Haley, Janice
(2007). Assistant Professor, BSN, Azusa Pacific University; MSN, Cal-State University at Long Beach; PhD, University of Hawaii.

Kawi, Jennifer
(2007). BSN, Saint Louis University; MSN, University of Nevada, Las Vegas.

Louis, Margaret
(1978), Associate Professor; BS, MA, Bradley University; Ph.D. University of Texas, Austin.

Menzel, Nancy
(2006) Associate Professor; BS Cornell University; MS Boston University; Ph.D. University of South Florida.

Sabo, Carolyn
(1984), Professor; BS, MS University of Utah; Ed.D. Brigham Young University.

Tan, Rhigel
(2005). BSN, Cebu City Medical Center College of Nursing; MN, Cebu Normal University.

VanBeuge, Susan
(2006), Lecturer; BS Pacific Lutheran University; MS University of Nevada Las Vegas.

Witt, Rosemary
(1971), Associate Professor; BS University of Iowa; MN University of Washington; Ph.D. University of Texas Austin.

York, Nancy
(2006), Assistant Professor; BS, MS Southern Illinois University at Edwardsville; Ph.D. University of Kentucky.

The master's program has full accreditation by the National League for Nursing (NLN) until 2010 and is also accredited by the Commission on Collegiate Nursing Education (CCNE) from 2008 until 2014. The Master of Science in Nursing Graduate program is designed to provide students pursuing a career in nursing the opportunity to acquire the knowledge, skills and abilities requisite to the safe, effective and efficient practice of nursing. The M.S.N. program currently offers the opportunity to become a nurse practitioner (NP) or a nurse educator.

The Ph.D. in Nursing Graduate program is designed to achieve the following program outcomes:

- * Provide leadership in the advancement of nursing as an academic and practice discipline and in political processes that affect nursing and healthcare.
- * Conduct original research that generates new knowledge.
- * Develop, implement and evaluate innovative approaches to teaching and learning.

R.N. to M.S.N. Pathway

Through a collaborative agreement with Nevada State College, registered nurses with an associate's degree or diploma are eligible to apply to take UNLV SON graduate courses as a special student. These courses count toward completion of a BSN. This collaboration shortens the graduate pathway by 9 credits. Upon BSN completion, the student is eligible to apply for one of the pathways in the graduate program. Applicants must meet all current requirements of admission into one of the pathways in the graduate program. For more information, please contact Nevada State College School of Nursing.

Transfer of Credit

The Graduate College evaluates transcripts and determines the credits acceptable to the university. The Graduate Admissions Committee determines the credits that may be applied toward the satisfaction of degree requirements for the Master of Science in Nursing. A limited number of graduate courses taken prior to admission to UNLV may be used in an advanced degree program. The courses must: a. Be approved by the Graduate Admissions Committee. b. Have been taken at an accredited institution. c. Have been completed with a grade of B or higher; B- is not acceptable. d. Upon recommendation of the Graduate Dean, be posted on the student's official UNLV transcript. e. Duplicate or excess credit is not counted toward a UNLV graduate degree.

The actual number of transfer credits accepted is determined when the Proposed Degree Program is filed after admission. No more than seven credits may be accepted. A six-year completion rule applies to all course work utilized in completion of the degree. The date of the first transfer class utilized to fulfill the degree requirements begins the allowed six calendar years. F

Graduates of Baccalaureate Programs from Foreign Countries

Since schools of nursing in foreign countries do not have the opportunity to achieve accreditation by the National League for Nursing Accrediting Commission or the Commission on Collegiate Nursing Education, students graduating from those schools will be exempt from meeting that one criterion for admission. Students will only be accepted on a full admission status, rather than a nonadmitted or provisional status.

Post-Master's Certificate

Individuals who already have a master's degree in nursing and meet the admission qualifications may complete a Post-Master's Certificate for an FNP, PNP or Nurse Educator. No degree will be awarded, but a certificate documenting completion of the course work will be provided and transcripts showing completion of the courses will be available.

Advisement

Academic faculty advisors are assigned to all entering students for program planning. At the time the student selects his/her examination committee, the committee chairperson becomes the student's official advisor. Students must complete the Proposed Program of Study Form by the end of the second semester of full-time study or the semester after they have achieved 16 credits.

Nursing M.S.N.

The M.S.N. program currently offers three tracks: the Family Nurse Practitioner Track, the Pediatric Nurse Practitioner Track, and the Nurse Educator Track. The role of the nurse practitioner (NP) is that of direct care provider. NPs practice in clinics, long-term care facilities, hospitals, physician offices, managed care corporations and private industries. NPs perform health histories and physical examinations, order and interpret diagnostic tests, diagnose and manage acute and chronic diseases, prescribe medication and treatments, provide patient and family counseling and education regarding lifestyle behaviors and self-care skills and participate in research projects and integrate research findings. The NP blends some aspects of medicine with nursing, using a nursing perspective. When required by state law, as it is in Nevada, NPs have collaborative relationships with physicians. Credentialing examinations, designed by specialty area, are available and required prior to practice in most states. The nurse practitioner tracks offer courses year round with the option for full-time and part-time study.

The nurse educator track prepares the graduate for a faculty position within a program of nursing or a nurse educator position in a clinical setting. The student will increase mastery related to teaching and learning and evaluation strategies, curriculum design, and the use of educational technologies. Via directed study and mentorship with experienced faculty, students will enhance clinical expertise in a selected specialty area. Graduate students will have the opportunity to supervise basic nursing students in clinical practice areas and/or work with nurse educators in clinical settings in the preparation, delivery and evaluation of educational programs for nurses. The nurse educator track is a year round program featuring full time, part time, and accelerated options for program completion.

Program Outcomes of the Master of Science Degree

Upon completion of the program the graduate will complete the following core outcomes:

1. Evaluate the principles, personal values, and beliefs that influence ethical decision making, which provides a framework for nursing practice.
2. Communicate effectively as a health care professional, creating collaborative interdependent relationships and act as advocates for the nursing profession and client population.

3. Incorporate nursing theory and evidence based practice in advanced nursing roles.
4. Understand the influences of human diversity and social issues in providing culturally sensitive health promotion and disease prevention strategies in a global society.
5. Assume a leadership role in the management of human, fiscal and physical health care resources to improve nursing practice and health care delivery.

Program Outcomes: Nurse Practitioner Track

1. Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.
2. Articulate the professional role, which includes the ethical code of conduct and scope of advanced practice.
3. Develop and monitor comprehensive, holistic plans of care that address the health promotion and disease prevention needs of diverse client populations.
4. Assess and monitor teaching/learning needs in a diverse client population. Practice ethically in the conduct of research, management and clinical professional practice.

Program Outcomes: Nurse Educator Track

1. Utilize education research to continually improve teaching strategies/skills.
2. Develop a teaching-learning style that facilitates learner development that meets the educational outcomes of the learner.
3. Assess and evaluate at both the course and program level
4. Function as a leader and change agent in nursing education
5. Participate in scholarship to further knowledge and abilities in nursing education.

Admission Requirements

Students are admitted to the program in the fall semester of each year based upon competitive selection. Students may enroll in selected (NURS 705, 706, and 713) classes as a non-degree student, but no more than seven credits of course work as a non-degree student will be accepted toward the degree.

Students make simultaneous application to the Graduate College and the School of Nursing.

1. Cumulative Grade Point Average (GPA) of 3.00 or a GPA of 3.00 in the last two years of undergraduate work. (Submit one copy of official transcripts from all previous college and professional schools to the Graduate College and one copy to the School of Nursing). The undergraduate nursing course work must have been completed at a nursing program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education.
2. Completion of undergraduate courses in nursing research, physical assessment (as currently taught in the

undergraduate program of nursing at UNLV), and a course in introductory statistics. All prerequisite courses must be completed with a grade of C (2.00) or better. It is expected that students possess basic computer word processing skills. If not, the student should seek that content prior to enrollment.

3. Completion of a graduate statistics course within the last three years prior to enrollment in NURS 707.
4. Two letters of recommendation from former instructors or employers that speak to the applicant's potential to complete the graduate program must be submitted to the school. The evaluators should speak to the student's professional nursing competency, including application of theory, quality of patient care, independent judgment when appropriate; relationship with team members such as nurses, physicians, and others; leadership skills; and personal responsibility and accountability.
5. A current resumé or vita.
6. Current registration to practice as a professional nurse in Nevada. Students should submit a copy of their Nursing License with the word "copy" printed over the top.
7. Evidence of current health and malpractice insurance. Accepted applicants must, prior to enrollment, show proof of completion of the Hepatitis B Vaccine series, a titer indicating presumptive immunity, or a statement from a health care provider indicating that vaccination is contraindicated for health reasons and validation of a negative drug screen. Other immunization and health data requirements are identified in the student handbook.
8. A statement of approximately 300 words describing the student's professional goals and reason for seeking graduate education.
9. Students seeking admission to the FNP or PNP track must submit a resume or vita that demonstrates a minimum of one year clinical experience as a registered nurse within the three years immediately preceding admission to the program. It is recommended that the most recent year of practice be in an area directly related to the student's proposed pathway of study.
10. Students seeking admission into the Nursing Education Pathway are required to have completed one year of clinical practice prior to enrollment in the first nursing education practicum course.
11. Selection into one of the approved pathways is based upon the applicant's qualifications (academic and professional), applicant's strengths as compared to other applicants, and upon the number of available openings.

Progression: To progress in the M.S.N. program students must:

Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

Receive a grade of B (3.00) or above in all required cognate and nursing courses. If less than a B, for example a B- (2.70), is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than B is ineligible for readmission unless approved by the SON Academic Council.

Complete a minimum of six semester hours in each calendar year.

Continuously register for a minimum of three semester hours of credit each semester while working on the thesis until completion. The three credits may be nonthesis credits, but a student must have a minimum of six credits of thesis credit prior to graduation.

Continuously register for three semester hours of credit each semester while completing the non-thesis option.

Graduation Requirements

- **Residency Credits.** No more than three courses (maximum 7 credits) may be transferred into the program. The Graduate Admissions Committee must approve transfer credit.
- Graduate courses with a 700 number or above may not be challenged for credit.
- **Six-Year Completion Rule.** All degree requirements must be completed within six calendar years from the date of matriculation. No credit may be used in an advanced degree program for course work completed more than six calendar years immediately preceding the term in which all degree requirements are completed. Nurse Practitioner students must complete the degree requirements within one year after the final clinical practicum is completed. If the student does not complete all degree requirements within the one-year time frame, he or she will be required to enroll in:
NURS 773 - Clinical Practicum each semester until graduation to maintain clinical skills.
- An examination, oral or written, will be held following completion of course work for students enrolled in either the thesis, research utilization, professional paper or capstone options. The final examination must be held at least three weeks prior to the last day of instruction in the term in which the student plans to complete the degree requirements. Students completing a thesis will be required to hand in the final copy early in the semester in which they plan to graduate. More detailed information is provided in the student handbook.

Part-Time Study

Students may complete the Nursing Education track and the courses prior to the clinical sequence of the NP tracks on a part-time basis, but must be cognizant of the six-year completion rule. Students entering the clinical sequence of the NP tracks must enroll as full-time students. Due to the

heavy clinical commitment in the NP tracks, it is recommended that students work no more than two shifts per week.

Course Requirements for Students in the Family Nurse Practitioner Track - Total Credits: 48

NURS 703 - Advanced Physical Assessment
NURS 704 - Pathophysiology for Advanced Nursing Practice
NURS 705 - Roles in Advanced Practice Nursing
NURS 706 - Nursing Theory and the Research Process
NURS 707 - Nursing Research Methods and Utilization
NURS 713 - Health and Public Policy
NURS 714 - Family Theory and Assessment in Primary Care
NURS 730 - Pharmacology in Primary Care
NURS 749 - Primary Care of the Family I
NURS 759 - Primary Care of the Family II
NURS 769 - Primary Care of the Family III
NURS 752 - Role of the Nurse Practitioner
NURS 773 - Clinical Practicum

Course Requirements for Students in the St Jude FNP Track - Total Credits: 36

NURS 703 - Advanced Physical Assessment
NURS 705 - Roles in Advanced Practice Nursing
NURS 706 - Nursing Theory and the Research Process
NURS 707 - Nursing Research Methods and Utilization
NURS 713 - Health and Public Policy
NURS 714 - Family Theory and Assessment in Primary Care:
NURS 730 - Pharmacology in Primary Care
NURS 752 - Role of the Nurse Practitioner
NURS 769 - Primary Care of the Family III
NURS 773 - Clinical Practicum

Course Requirements for Students in the Pediatric Nurse Practitioner Track - Total Credits: 47

This track is offered when there are sufficient numbers of qualified applicants.

NURS 704 - Pathophysiology for Advanced Nursing Practice
NURS 705 - Roles in Advanced Practice Nursing
NURS 706 - Nursing Theory and the Research Process
NURS 707 - Nursing Research Methods and Utilization
NURS 713 - Health and Public Policy
NURS 714 - Family Theory and Assessment in Primary Care
NURS 730 - Pharmacology in Primary Care
NURS 731 - Advanced Pediatric Health Assessment
NURS 734 - Primary Care in Pediatrics: The Well Child and Adolescent
NURS 744 - Primary Care in Pediatrics: Common Problems
12 hours of clinical practicum required
NURS 752 - Role of the Nurse Practitioner
NURS 764 - Primary Care in Pediatrics: Chronic Conditions
15 hours of clinical practicum required
NURS 773 - Clinical Practicum

Course Requirements for Students in the Nursing Education Track - Total Credits: 39

NURS 706 - Nursing Theory and the Research Process
NURS 709 - Teaching and Learning in Nursing
NURS 710 - Evaluation Strategies For Nurse Educators
NURS 755 - Nursing Educator Role Development
NURS 707 - Nursing Research Methods and Utilization
NURS 724 - Developing Curriculum for Nursing Education
NURS 742 - Advanced Nursing Informatics
Three credits of a NURS elective taken by students selecting the professional paper option. May be taken the following spring.
NURS 723 - Specialty Focus for Nurse Educators
NURS 733 - Nursing Practicum I
NURS 713 - Health and Public Policy
NURS 743 - Nursing Education Practicum 2
NURS 799 - Thesis *
NURS 795 - Research Utilization Project **

***Thesis Option:** 3 credits of NURS 799 must be taken during the summer of the first year and fall of the second year for a total of six (6) credits.

**** Professional Paper Option:** 3 credits of NURS 795 must be taken during the summer of the first year and fall of the second year for a total of six (6) credits.

Scholarly Requirement for All Tracks

Traditionally students in the NP tracks complete a capstone project or a thesis. Nurse educator students traditionally complete a research utilization project, thesis or a professional paper.

Capstone*

NURS 766 - Capstone Seminar I (one semester)
NURS 796 - Capstone Seminar II (one semester)

Thesis*‡

NURS 799 - Thesis (two semesters)

Research Utilization Project‡

NURS 799 - Thesis (two semesters)

Professional Paper‡

NURS 793 - Nursing Education Professional Paper (one semester after the elective is completed)

*=NP students (complete only one of scholarly project listed above. If completing capstone must successfully pass both N766 and N796. If completing thesis must successfully pass N799 for a total of six credits).

‡=Nursing education students (complete only one of the three scholarly projects listed above).

Nursing Ph.D.

Individuals who complete the PhD in Nursing Program will be prepared for roles as leader, scholar/researcher, and educator in academia, the health care industry, or government and private organizations focused on health care. Graduates will demonstrate the following program outcomes:

- Provide leadership in the advancement of nursing as an academic and practice discipline and in political processes that affect nursing and healthcare.
- Conduct original research that generates new knowledge.
- Develop, implement and evaluate innovative approaches to teaching and learning.

Program Entrance Requirements

Admission into the nursing doctoral program is contingent upon the qualifications of the applicant and the availability of positions. Students are admitted once a year in the fall. Applicants must have submitted all required materials by March 1.

Admission Requirements

1. Earned bachelor's and master's degrees in nursing from programs accredited by the National League for Nursing Accrediting Commission or the Commission on Collegiate Nursing Education; persons educated outside the United States need to demonstrate proof of equivalent education and advanced degrees.
2. Persons holding a bachelor's degree in nursing and master's degree in a health-related discipline from an accredited institution are eligible for admission but will need to successfully complete NURS 705, 706, 707 and 713 from the MSN program prior to taking doctoral courses.
3. A minimal grade point average of 3.5 (4.0 = A) earned in a nursing or health-related master's program of study.
4. Successful completion of graduate course work in statistics and research.
5. Licensed as a Registered Nurse in at least one state or territory of the US.
6. Applicants must present competitive GRE scores on verbal, quantitative and analytic measures. The exam must have been taken within the last five years.
7. Three letters of recommendation are required from individuals who can evaluate the applicant's motivation, academic capability, scholarship potential, and personal integrity for doctoral study in nursing.
8. Evidence of current health and malpractice insurance. Accepted applicants must, prior to enrollment, show proof of completion of the Hepatitis B vaccine series, a titer indicating presumptive immunity, or a statement from a health care provider indicating that vaccination is contraindicated for health reasons and validation of a

negative drug screen. Other immunization and health data requirements are identified in the student handbook.

9. Applicants must submit the following written materials for review: a. Two representative samples of scholarly work (e.g., thesis, demonstration project, publications, etc.). b. Written statement of personal career, educational and scholarship goals including identification of research interests. The applicant's research interests must be within the realm of our faculty expertise in order to pursue a doctoral degree in this program. c. Curriculum Vita or resume.
10. Applicants are required to participate in an interview with members of the Admissions Committee, either in person or by telephone.

Course Offerings

Doctoral courses offered by the School of Nursing are web-based. However, students are required to be on campus three days at the beginning of each fall semester. These meeting times and dates are set in advance to allow students adequate time to plan their schedules and most likely occur on Friday and/or Saturday.

Programs of Study

There are two options in the current PhD in Nursing Program: "Nursing Education" Option and "Urban Sustainability: Health" Option (approved and is scheduled to enroll students in Fall of 2010). The UNLV SON PhD in Nursing Curriculum Framework outlines the shared required core courses in the PhD in Nursing Program as well as the selected Option required courses.

A minimum of 65 graduate credit hours is required. Students who have completed appropriate nursing education courses prior to admission will complete a reduced number of credits for a total of no less than 53 graduate credit hours. Students can enroll for either part-time or full-time study.

Degree Requirements

All students will complete the following program of study in terms of major focal areas of the curriculum.

Doctoral Core - Total Credits: 44

NURS 709 - Teaching and Learning in Nursing
NURS 770 - Knowledge Development in Nursing
NURS 771 - Theory Development in Nursing
NURS 772 - The Nurse as Leader
NURS 775 - Statistical Methods for Nursing Research I: Univariate Methods
NURS 776 - Statistical Methods for Nursing Research II: Multivariate Methods
NURS 779 - Writing a Research Grant Application
NURS 780 - Research Methods in Nursing
NURS 781 - Qualitative Data Analysis Processes
NURS 785 - Special Topics in Nursing Research
NURS 789 - Independent Study

NURS 797 - Dissertation

Nursing Education Option - Total Credits: 21

NURS 710 - Evaluation Strategies For Nurse Educators
NURS 724 - Developing Curriculum for Nursing Education
NURS 733 - Nursing Practicum I
NURS 774 - Educational Theory and Philosophy for Nursing
NURS 790 - Independent Teaching Practicum Seminar
NURS 791 - Independent Teaching Practicum

Urban Sustainability: Health Option- Total Credits: 21

NURS 778 - Geographic Information Systems for Health
NURS 782 - Sustainability of Urban Health: Clinical Perspectives
NURS 783 - Economics of Sustaining Urban Health
NURS 784 - Health and Public Policy for Urban Sustainability
NURS 777 - Individualized Study/Dissertation Seminar

Credit Hours and Grade Point Average

A minimum of 65 graduate credit hours is required (students who have completed courses 709, 710, 724, and 733 or equivalent course work in either their masters' or postmasters' education are required to complete a minimum of 53 credits of required course work). A grade point average of 3.0 must be maintained in all courses required for the degree; no grade less than B is acceptable for curricular completion of the program. Each student, upon admission, will be assigned an initial academic advisor who will plan the student's entire program of study for submission to the Ph.D. Coordinator for approval. Approved courses will include those taught in other disciplines and must relate to the student's area of research.

Progression and Policies

Initial advisors monitor the student's progress through the program of study. In addition, the Ph.D. Coordinator will monitor the student's progress, including adherence to all established policies of the Graduate College. After the student has selected a research topic, the student may either continue with the assigned initial advisor or request a change of advisor based on research focus and needs. Upon student recommendation, faculty acceptance, and approval from both the Ph.D. Coordinator and the Graduate College, the advisor will be changed.

Dissertation Prospectus

Upon successfully completing the comprehensive examination, the student submits a dissertation prospectus to his/her committee for approval. Once the prospectus is approved by the committee, the student submits a "Prospectus Approval Form" to the Graduate College. Upon completion of these requirements, the student achieves candidacy and can register for dissertation credits and begin independent study. The student's major advisor and

dissertation committee are responsible for the student's progression through the dissertation.

Comprehensive Examination

Upon completion of all required course work other than dissertation and research seminar, each student must take a written Comprehensive Examination that will assess a doctoral student's readiness to begin the doctoral dissertation. Specifically, the examination will evaluate a student's written and oral articulation of a possible dissertation research focus or problem.

Upon completion of these requirements, the student achieves candidacy and can register for dissertation credits and begin independent dissertation study.

Final Oral Examination

Upon completion of the dissertation, the student must pass a final oral examination which involves the successful defense of the dissertation study. All dissertation committee members must be present for this examination and may question the student following presentation of the study. The defense will be scheduled and conducted in accordance with the Graduate College's policies for dissertation completion.

Family Nurse Practitioner Certificate

Individuals who already have a master's degree in nursing, and meet the admission qualifications will be allowed to take courses as a non-degree student. No degree will be awarded, but a certificate documenting completion of the course work will be provided and transcripts showing completion of the courses will be available. Each individual applicant will be evaluated to determine the courses required in order to complete the specific certificate program. Additional courses beyond the minimum courses needed for the certificate program may be required if the applicant's earned MS in nursing lack courses required by the UNLV School of Nursing.

Certificate Requirements

NURS 703 - Advanced Physical Assessment
NURS 704 - Pathophysiology for Advanced Nursing Practice
NURS 705 - Roles in Advanced Practice Nursing
NURS 713 - Health and Public Policy
NURS 730 - Pharmacology in Primary Care
NURS 742 - Advanced Nursing Informatics
NURS 744 - Primary Care in Pediatrics: Common Problems
NURS 749 - Primary Care of the Family I
NURS 759 - Primary Care of the Family II
NURS 769 - Primary Care of the Family III

Nursing Education Post-Masters Certificate

Individuals who already hold a master's degree in nursing and meet the admission qualifications, may take courses leading to the Nursing Education Post-Masters Certificate. Admitted students take courses as a non degree student and are awarded a certificate documenting completion of the required course work. The Nursing Education Post-Masters Certificate prepares individuals for teaching positions within a program of nursing or a nurse educator position in a clinical setting.

Required Courses:

NURS 709 - Teaching and Learning in Nursing
NURS 724 - Developing Curriculum for Nursing Education
NURS 710 - Evaluation Strategies For Nurse Educators
NURS 733 - Nursing Practicum I

Pediatric Nurse Practitioner Certificate

The role of the Nurse Practitioner is that of direct care provider. Nurse practitioners may be educated in a variety of specialties, but the programs offered at UNLV are those of Family Nurse Practitioner and the Pediatric Nurse Practitioner. Currently the Geriatric Nurse Practitioner pathway is not offered. However, a post-master's certificate will potentially be offered in fall, 2006 if there are a sufficient number of qualified applicants.

NP's practice in clinics, long term care facilities, hospitals, physician offices, managed care corporations, and private industries. Practitioners perform health histories and physical examinations, order and interpret diagnostic tests, diagnose and manage acute and chronic diseases, prescribe medication and treatments, provide patient and family counseling and education regarding lifestyle behaviors and self-care skills, and participate in research projects as well as integrate research findings into practice.

The NP blends some aspects of medicine with Nursing, using a Nursing perspective. When required by state law, as it is in Nevada, NP's have collaborative relationships with physicians. Credentialing examinations, designed by specialty areas, are available and required prior to practice in most states.

A. Core courses completed by ALL practitioner students

NURS 704 - Pathophysiology for Advanced Nursing Practice
NURS 705 - Roles in Advanced Practice Nursing
NURS 706 - Nursing Theory and the Research Process
NURS 707 - Nursing Research Methods and Utilization
NURS 713 - Health and Public Policy
NURS 730 - Pharmacology in Primary Care
NURS 752 - Role of the Nurse Practitioner
NURS 766 - Capstone Seminar I
NURS 796 - Capstone Seminar II

B. Clinical Pathway

NURS 714 - Family Theory and Assessment in Primary Care:
NURS 731 - Advanced Pediatric Health Assessment
NURS 734 - Primary Care in Pediatrics: The Well Child and Adolescent
NURS 744 - Primary Care in Pediatrics: Common Problems
NURS 764 - Primary Care in Pediatrics: Chronic Conditions

Course Descriptions

NURS 622 - AIDS: An Interdisciplinary Perspective
NURS 654 - Introduction to Forensic Nursing
NURS 675 - Nursing Systems Management
NURS 676 - Introduction to Nursing Case Management
NURS 677 - Nursing Case Management Systems
NURS 677 - Nursing Case Management Systems

Note: The above 600-level courses have been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

NURS 703 - Advanced Physical Assessment

Credits 3

Focuses on expanding the skills necessary to do a comprehensive physical assessment. Emphasis on developing advanced techniques in history taking and physical examination to prepare the student for clinical course as a nurse practitioner. Correlation of assessment findings with pathophysiological processes to develop differential diagnosis is presented. **Prerequisites:** Admission to Graduate Program or consent of instructor.

NURS 704 - Pathophysiology for Advanced Nursing Practice

Credits 3

Emphasis on physiologic mechanisms of disease from a cellular perspective. Cellular pathophysiology of disease as it translates into clinical signs and symptoms manifested by the patient. Physiology of growth and development and the physiology of aging as they contrast with pathophysiological mechanisms of disease. **Prerequisites:** Admission into the graduate program in nursing or consent of instructor.

NURS 705 - Roles in Advanced Practice Nursing

Credits 1

Introduces specialty areas within advanced practice nursing. Differentiates between characteristics of each specialty area. **Prerequisites:** Consent of Graduate Program Advisor.

NURS 706 - Nursing Theory and the Research Process

Credits 3

Examines nursing theories/models and their role in practice, research and education. Emphasizes the structure, building

and testing of nursing knowledge. Discussion of the research process. **Prerequisites:** Graduate standing.

NURS 707 - Nursing Research Methods and Utilization
Credits 3

Examines qualitative and quantitative nursing research methods, research utilization and skills for critical evaluation of nursing research. Evaluation of research findings for evidence-based practice or thesis approach to scholarly inquiry also emphasized. **Prerequisites:** NURS 706

NURS 709 - Teaching and Learning in Nursing
Credits 3

Explores traditional and alternative teaching and learning concepts, skills, and strategies. Emphasis is on competencies of an educator. **Prerequisites:** Admission to the Graduate Nursing Program or Certificate Program for Nurse Educators.

NURS 710 - Evaluation Strategies For Nurse Educators
Credits 3

Develops formative/process and summative/outcome evaluations for patients, students, peers and programs using both traditional and alternative evaluation strategies. Experience in evaluating outcomes and processes of education within the context of nursing specialty area. **Prerequisites:** Admission to the Graduate Nursing Program or Certificate Program for Nurse Educators.

NURS 713 - Health and Public Policy
Credits 3

Examines selected health problems from a political, cultural, social, educational, environmental, economic and ethical perspective. Analysis of research and public policy relevant to the prevention, treatment and amelioration of the problems. Initiate change strategies to impact public policy related to the selected problems. **Prerequisites:** Consent of Graduate Program Advisor.

NURS 714 - Family Theory and Assessment in Primary Care
Credits 3

Study of advanced and emerging theory in family nursing science, determinants of family health, and research in family systems in the context of society and culture. Emphasis on family as client. Applies theory to phenomena in family and child health. **Prerequisites:** Graduate standing.

NURS 720 - Functionality of the GNP Role
Credits 3

Focuses on roles of GNP as expert practitioner, educator, consultant, clinical researcher and systems manager in primary, secondary and tertiary practice settings. Uses bio-psycho-social, spiritual, cultural perspectives and epidemiology data to examine communication,

developmental and intergenerational issues in the care of older adults. Note: (3 hours/week practicum).

Prerequisites: NURS 705 and acceptance into the Gerontological Nurse Practitioner pathway.

NURS 722 - Integrative Health Care
Credits 3

Exploration of healing and wholeness as a philosophy for advanced nursing practice. Examination and evaluation of healing modalities that can be utilized for health promotion and treatment of common health problems. **Prerequisites:** NURS 705, NURS 706

NURS 723 - Specialty Focus for Nurse Educators
Credits 4

Advanced knowledge in nursing specialty area of choice. Under the direction of a nursing faculty mentor, examines interrelationships between theory, practice, and research within specialty area. Includes independent study lab and seminar. **Prerequisites:** Admission to the Graduate Nursing Program or Certificate Program for Nursing Educators.

NURS 724 - Developing Curriculum for Nursing Education
Credits 3

Develop curriculum for educational programs in schools of nursing and clinical agencies. Clinical specialty area and intended practice setting serve as context for course assignments. **Prerequisites:** Admission to the Graduate Nursing Program or Certificate Program for Nursing Educators.

NURS 727 - Nursing Management: Organizational Level
Credits 3

Analysis of theories and goals of nursing management, the processes and resources utilized for goal achievement, and the various systems which impact nursing care delivery. **Prerequisites:** NURS 706, 707, and 713

NURS 730 - Pharmacology in Primary Care
Credits 3

Focuses on the clinical application of pharmacologic and pharmacy kinetics principles in the management of selected health problems of adults and children. Focuses on drugs commonly used for adults and children in primary care settings. **Prerequisites:** NURS 704

NURS 731 - Advanced Pediatric Health Assessment
Credits 3

Focuses on advanced concepts in the physical, social, cognitive and developmental assessment of infants, children, and adolescents. Physical assessment specific to each age group will be studied. Students will also explore several selected developmental screening tools. Note: Three hours/week of precepted clinical/lab. **Prerequisites:** Graduate standing in PNP track.

NURS 733 - Nursing Practicum I

Credits 4

Applies strategies and concepts of the nurse educator role in a practice setting of choice and within the context of clinical specialty area. **Prerequisites:** NURS 709, NURS 710, and NURS 723.

NURS 734 - Primary Care in Pediatrics: The Well Child and Adolescent

Credits 6

Primary care of children and adolescents, specifically, advanced nursing assessment and interventions designed to promote the wellness of children aged 0 through adolescents are emphasized. Includes screening anticipatory guidance and health promotion strategies. Note: Twelve hours of precepted practicum per week. **Prerequisites:** NURS 704 and 731

NURS 740 - The GNP Role in Wellness Management: Primary Prevention

Credits 6

Theoretical and clinical basis of primary prevention for older adults. Focuses on concepts of health promotion, maintenance, screening, teaching, advocacy and financing. Exploration of essential nutrition needs, lifestyle and living patterns of non-institutionalized older adults. Clinical management includes algorithm, protocols and health maintenance flow sheets. Note: (12 hours/week practicum) **Prerequisites:** NURS 703, 704 720, and 730.

NURS 742 - Advanced Nursing Informatics

Credits 2

Analyze the use of computer and information science and systems to manage and process data, information and knowledge in nursing education. Note: Nursing specialty serves as the context for course assignments. **Prerequisites:** Admission to the Graduate Nursing Program or Certificate Program for Nurse Educators.

NURS 743 - Nursing Education Practicum 2

Credits 4

Second practicum to apply and evaluate strategies and concepts of the nurse educator role in a practice setting of choice and within the context of clinical specialty area. **Prerequisites:** NURS 709, NURS 710, NURS 723 and NURS 733.

NURS 744 - Primary Care in Pediatrics: Common Problems

Credits 7

Research-based assessment, diagnosis, management and evaluation of common acute health problems affecting children from infancy through adolescence. Note: Nine hours per week of precepted practicum. **Prerequisites:** : : NURS 731 and 734.

NURS 749 - Primary Care of the Family I

Credits 6

Theoretical and clinical bases of primary and secondary prevention for families across the lifespan. Focuses on health maintenance, teaching, screening and clinical management of common acute health problems. Emphasis on wellness management, differential diagnoses and pharmacologic/non-pharmacologic treatment options. Note: (15 hours/week clinical). **Prerequisites:** NURS 703, Basic Life Support Certification and current malpractice insurance.

NURS 750 - The GNP Role in Acute Illness Management: Secondary Prevention

Credits 6

Theoretical and clinical basis of secondary prevention (acute care) for older adults. Focuses on clinical management of common acute health problems encountered in an inpatient or outpatient setting, stressing differential diagnosis and pharmacologic/non-pharmacologic treatment options. **Prerequisites:** NURS 740

NURS 752 - Role of the Nurse Practitioner

Credits 2

Assists the student in transitioning into the role of the practicing nurse practitioner. Focuses on ethical decision making, legal issues, various practice plans, billing, credentialing and legal certification requirements for practice. **Prerequisites:** Concurrent enrollment in NURS 769.

NURS 755 - Nursing Educator Role Development

Credits 2

Explores the role of the nurse educator including development in the areas of teaching, research, and service. Examines interpersonal dynamics and team-work in academic and practice settings, functioning within institutional expectations, developing a teaching portfolio, legal issues, and future directions in nursing education.

NURS 757 - Field Study in Nursing Management

Credits 3

Application and testing of existing theories and processes of management in the delivery of nursing services. Projects carried out under the guidance of a nursing faculty member, in collaboration with a preceptor in a clinical agency. **Prerequisites:** NURS 727

NURS 759 - Primary Care of the Family II

Credits 8

Theoretical and clinical basis for secondary and tertiary prevention interventions across the lifespan. Focuses on clinical management of common acute health problems. Students examine the individual, familial and societal impact of chronic and terminal illness. Emphasis on differential diagnosis, clinical management and

identification/utilization of community resources Note: (15 hours of clinical per week). **Prerequisites:** Successful completion of NURS 749/749L.

NURS 760 - The GNP Role in Chronic Illness Management: Primary, Secondary and Tertiary Prevention

Credits 8

Focuses on chronic illness management of the older adult in primary, secondary and/or tertiary settings. Seminar presentations include research and practice protocols. Practicum involves increased independence under supervision of on-site preceptors and clinical instructor Note: (15 hours/week practicum). **Prerequisites:** Successful completion of NURS 750.

NURS 762 - Integrative Health Care Practicum I

Credits 3

Development of skill in mind-body therapies. Exploration and evaluation of providers of complementary therapies in the community that enables the student to develop a knowledge base regarding appropriate therapies for common health problems. **Prerequisites:** NURS 722

NURS 764 - Primary Care in Pediatrics: Chronic Conditions

Credits 8

Research based assessment, diagnosis, management and evaluation of common developmental and behavioral problems affecting children and families.

Note: Nine hours of precepted clinical experience in primary care per week. **Prerequisites:** NURS 714, 744

NURS 766 - Capstone Seminar I

Credits 1

Capstone seminar provides students with the opportunity to synthesize core and major coursework completed during the program of graduate study. Capstone seminar I, the first of two capstone credits, culminates in the submission of the first written draft of the capstone project. The capstone is fully developed in capstone II.

NURS 769 - Primary Care of the Family III

Credits 8

This final clinical seminar focuses on continued clinical expertise and relies on the knowledge and skills learned in previous courses. Students gain skill in providing care to families with increasing independence under the supervision of a preceptor and clinical instructor. (1 credit of seminar = 2 contact hours, 7 credits of clinical = 21 contact hours of clinical per week. **Prerequisites:** Successful completion of NURS 749/749L and 759/759L.

NURS 770 - Knowledge Development in Nursing

Credits 3

Offers a disciplinary context for doctoral study in nursing. The history and evolution of nursing knowledge is

examined. Emphasis is on debates regarding what is known and how it is known. **Prerequisites:** Enrollment in nursing doctoral program.

NURS 771 - Theory Development in Nursing

Credits 3

Theoretical frameworks that guide the development of nursing knowledge. The methods and processes of theory development are analyzed. **Prerequisites:** Enrollment in doctoral program.

NURS 772 - The Nurse as Leader

Credits 3

Leadership models as templates for nurse leader. Factors that influence leadership will be explored. **Prerequisites:** : Enrollment in the nursing doctoral program.

NURS 773 - Clinical Practicum

Credits 3 - 6

Designed for students continuing a clinical practicum while completing NURS 795/799/796. Students enrolled in this clinical practicum course must register for at least 3 credits (this translates to at least nine hours of clinical per week) but no more than six credits in any one semester. Note: May be repeated up to three consecutive semesters but a student may not take more than a total of nine credits.

Prerequisites: Successful completion of NURS 769/769L.

NURS 774 - Educational Theory and Philosophy for Nursing

Credits 3

Explores traditional and contemporary philosophies and theories of education within the context of societal development. Examines the role of educational theory and philosophy within nursing education. **Prerequisites:** Enrollment in the nursing doctoral program.

NURS 775 - Statistical Methods for Nursing Research I: Univariate Methods

Credits 3

Designed to provide students with skills necessary to understand, interpret, and conduct descriptive and univariate analysis relevant to the field of nursing. Students will gain practical experience examining real-world data sets using SPSS software. **Prerequisites:** Enrollment in the nursing doctoral program; successful completion of introductory graduate level statistics course.

NURS 776 - Statistical Methods for Nursing Research II: Multivariate Methods

Credits 3

Focuses on multivariate methods useful for the field of nursing research. Students will be expected to complete a capstone project to explore and implement statistical methods likely to be part of their dissertation projects.

Prerequisites: Enrollment in the nursing doctoral program; NURS 775 or equivalent.

NURS 777 - Individualized Study/Dissertation Seminar

Credits 1 - 8

Individualized study or seminar to facilitate dissertation research. Note: May be repeated to a maximum of eight credits. **Prerequisites:** : : Admission into doctoral program or permission of instructor.

NURS 778 - Geographic Information Systems for Health

Credits 3

Introduces the use of epidemiologic methods and modern geographic information systems to analyze the relationships between socioeconomic, physical, geopolitical, and demographic factors and urban health. These techniques for the basis of assessment of urban health problems to inform, plan, deliver, and evaluate appropriate interventions to ensure urban sustainability. **Prerequisites:** Admission into doctoral program or permission of instructor.

NURS 779 - Writing a Research Grant Application

Credits 2

Involves preparing and writing a research grant application. Students will learn how to prepare a research budget and budget justification; write a resources and environment section, a biosketch, and project timeline; and propose an innovative and significant research proposal. **Prerequisites:** NURS 780 or permission of instructor.

NURS 780 - Research Methods in Nursing

Credits 3

Examines qualitative, quantitative and mixed-method approaches used in nursing research. **Prerequisites:** Admitted to nursing doctoral program.

NURS 781 - Qualitative Data Analysis Processes

Credits 3

Study of range of approaches to management of qualitative data; exploration of criteria for validity and reliability of outcomes. **Prerequisites:** NURS 780, Enrollment in the Nursing Ph.D. Program.

NURS 782 - Sustainability of Urban Health: Clinical Perspectives

Credits 4

Focuses on air quality, potable water, waste disposal, disasters, and other potentially health-threatening urban environmental problems that affect urban sustainability in developing and developed countries. The impact of sustainability environmental practices on urban health will be examined. **Prerequisites:** Admission into doctoral program or permission of instructor, NURS 778.

NURS 783 - Economics of Sustaining Urban Health

Credits 3

Uses an economic sustainability approach to examine health effects of such issues as health insurance and health care financing, acute and chronic disease, and psychosocial

issues. The economics of urban health in developing and developed countries will be compared. **Prerequisites:** Admission into doctoral program or permission of instructor.

NURS 784 - Health and Public Policy for Urban Sustainability

Credits 3

Examines urban health promotion in terms of primary, secondary, and tertiary prevention, with an emphasis on the policy issues and critical processes that shape them. Apply theories to identify urban health promotion issues that are linked to sustainability and identify policy strategies for upstream interventions. **Prerequisites:** Admission into doctoral program or permission of instructor.

NURS 785 - Special Topics in Nursing Research

Credits 2-8

Provides the student with an opportunity for an in-depth exploration of specific aspects of nursing research issues and approaches. **Prerequisites:** NURS 780 and admission to doctoral program.

NURS 789 - Independent Study

Credits 3

Supervised student designed study project done in consultation with instructor; must be submitted in writing to student advisor and graduate program coordinator for approval. **Prerequisites:** Enrollment in nursing doctoral program, NURS 770, 771, 772, 780.

NURS 790 - Independent Teaching Practicum Seminar

Credits 1

Exploration in group settings of actual experiences and outcomes of independent teaching practicum. Options for enhanced personal performance as nurse educator will be discussed. Note: Must be taken concurrently with NURS 791. **Prerequisites:** NURS 724, NURS 733 and enrollment in nursing doctoral program.

NURS 791 - Independent Teaching Practicum

Credits 8

Integrate knowledge and competencies of nurse educator through application in independently taught undergraduate nursing course; systematic exploration of roles, responsibilities, and opportunities inherent in practice of nursing education. **Prerequisites:** NURS 724, NURS 733 and enrollment in nursing doctoral program.

NURS 793 - Nursing Education Professional Paper

Credits 3

Focuses on a key area of nursing education requiring exploration and development. Students will select a committee to provide review and guidance. The final paper will be adapted and submitted for publication to a

professional, peer-reviewed journal. **Prerequisites:** NURS 733

NURS 795 - Research Utilization Project

Credits 3

Identify a clinically based problem in area of nursing practice. Evaluate extent current practice deviates from research based practice. Design, implement and systematically evaluate a research-based innovation project. Note: May be repeated, but only six credits may be applied to the student's program. Grading S/F grading only.

Prerequisites: NURS 706, 707

NURS 796 - Capstone Seminar II

Credits 1

Capstone seminar II provides students with the opportunity to complete the development of the graduate program capstone project initiated in seminar I. The final written project will be submitted for grading, and the project will be presented orally to the student's advising committee and any interested parties. **Prerequisites:** NURS 766

NURS 797 - Dissertation

Credits 1 – 12

Research analysis and writing toward completion of dissertation and subsequent defense. Formerly (NURS 798) Grading S/F grading only. **Prerequisites:** Enrollment in nursing doctoral program and consent of instructor.

NURS 798 - Independent Study

Credits 1 – 3

Graduate seminar focusing on current developments in nursing practice. Formerly (NURS 797) Note: Topics vary each semester. **Prerequisites:** Admission to graduate program and consent of instructor.

NURS 799 - Thesis

Credits 3

Note: May be repeated, but only six credits may be applied to the student's program. Grading S/F grading only.

Prerequisites: NURS 706, 707

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