

## **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, Community Health Sciences and Allied Health Sciences. 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 of our citizens. Taken together, UNLV is helping build a foundation for a healthier and more vibrant Nevada.

### **Schools**

School of Allied Health Sciences

School of Community Health Sciences

School of Dental Medicine

School of Nursing

## Health Physics and Diagnostic Sciences

Many industries, medical facilities, and research laboratories demand professionals who understand the safe and effective use of radiation and radioactive materials. Health physics is the study of radiation protection, and the safe use of radioactive materials. Our M.S. program provides students with instruction and research opportunities focused in two career paths: Medical Physics, the effective use of radiation for medical imaging and therapy, and Environmental Health Physics, radiation protection, the industrial applications of radiation and radioactive materials, and the behavior and evaluation of radiation in the environment. The Department of Health Physics faculty members 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 while allowing society to benefit from all the beneficial applications of radiation and radioactive materials in the modern world. It incorporates the principles and technical skills from many disciplines including: physics, chemistry, biochemistry, biology, mathematics, and ecology.. 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 fields of health physics and medical 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, medical imaging, and radiation therapy.

The M.S. in Health Physics Program is accredited by both the Commission on Accreditation of Medical Physics Educational Programs (CAMPEP) and the Accreditation Board for Engineering and Technology (ABET).

*Steen Madsen, Ph.D., Chair*

*Gary Cerefice, Ph.D., Graduate Coordinator*

### *Chair*

**Madsen, Steen** - *Full Graduate Faculty*

Professor; B.S., University of Toronto; M.S., Ph.D., McMaster University . *Rebel since 1997.*

### *Graduate Coordinator*

**Cerefice, Gary** - *Full Graduate Faculty*

Assistant Professor; B.S., University of Illinois; M.S., Ph.D., Massachusetts Institute of Technology. *Rebel since 2009.*

### *Graduate Faculty*

**Cucinotta, Francis** - *Full Graduate Faculty*

Professor; B.A. Rutgers, Ph.D. Old Dominion University. *Rebel since 2013.*

**Hanson, Eric H.** - *Associated Graduate Faculty*

B.S., Oregon State University; M.Ph., Univormed Services University of the Health Sciences; M.D., Johns Hopkins University. *Rebel since 2010.*

**Hirschberg, Henry** - *Associate Graduate Faculty*

B.E.E. City University New York; M.D., Ph.D., University of Oslo, Norway. *Rebel since 2006.*

**Kuang, Yu** - *Full Graduate Faculty*

Assistant Professor; B.M.E., M.S., Zhejiang University; Ph.D., Case Western Reserve University. *Rebel since 2012.*

**Ma, Bing** - *Full Graduate Faculty*

Assistant Professor; B.S. Tsinghua University, M.S., Ph.D. University of Michigan. *Rebel since 2013.*

**Meigooni, Ali S.** - *Associate Graduate Faculty*

B.S. Tehran University; M.S., Ph.D., Ohio University. *Rebel since 2012.*

**Riland, Carson A.** - *Associate Graduate Faculty*

B.S. Bloomsburg University; M.S., Ph.D. Texas A&M University. *Rebel since 1996.*

**Sudowe, Ralf** - *Full Graduate Faculty*

Associate Professor; Dipl.-Chem, Dr. rer. nat., Philipps Universitat Marburg, Germany. *Rebel since 2006.*

## Health Physics & Diagnostic Sciences Plans

### Master of Science - Health Physics

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.

#### Learning Outcomes

[www.unlv.edu/degree/ms-health-physics](http://www.unlv.edu/degree/ms-health-physics)

#### Plan Admission Requirements

- Complete the Graduate College online application for admission. Completed applications, official Graduate Record Examination (GRE) scores, one copy of official transcripts from all post-secondary institutions, and all other documents (i.e., recommendation provider information and statement of professional goals) should be uploaded into the online application system.
- Students seeking admission to the graduate program in health physics must fulfill the following admission requirements:
- 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.
- Successful completion (grade of C or better) of the following course work:
  - Seven-semester credits in biology including an introductory modern biology course and one higher level course
  - Ten-semester credits in chemistry or geology including a general chemistry sequence and one higher-level course
  - Eight-semester credits in elementary calculus (mathematics through differential equations is recommended)
  - Twelve semester credits in physics including a general physics sequence
  - 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 Thesis or Professional Paper.

- 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.
- Students seeking entry to the medical physics specialization must have a strong foundation in physics and, as such, applicants are required to have either an undergraduate degree in physics or a degree in a related engineering or physical science discipline with course work equivalent to a minor in physics (includes at least three upper level undergraduate physics courses).
- A score ranking in the 50th percentile or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE). Tests taken prior to August 2011 require a composite score of 1,000 or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE).
- Three letters of recommendation from former instructors or employers that speak to the applicant, "potential as a graduate student. Contact information for recommendation providers should be entered into the recommendation page of the online application. Recommenders will then upload their letters directly into the student's online application.
- A statement of approximately 300 words indicating the student's professional goals and reason for seeking graduate education.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

## **Plan Requirements**

See Subplan Requirements below.

## **Subplan 1 Requirements: Environmental Health Physics**

Total Required Credits: 40

## **Course Requirements**

- Required Courses – Credits: 21
  - HPS 602 - Radiation Detection
  - HPS 603 - Radiation Physics and Instrumentation Laboratory
  - HPS 701 - Applied Nuclear Physics
  - HPS 703 - Radiation Interactions and Transport
  - HPS 720 - Radiation Dosimetry
  - HPS 730 - Advanced Radiation Biology
  - HPS 791 - Graduate Seminar
- Core Courses – Credits: 7
  - HPS 616 - Advanced Health Physics
  - HPS 718 - Radiochemistry Laboratory
  - HPS 719 - Introduction to Radioanalytical Chemistry
- Elective Courses – Credits: 6
  - Complete 6 credits from the following list of courses, any graduate-level health physics (HPS) courses, or other advisor-approved graduate-level courses.
    - HPS 670 - Environmental Health Physics
    - HPS 750 - Radiation Risk Assessment
    - HPS 760 - Environmental Restoration and Radioactive Waste Management
- Culminating Experience – Credits: 6
  - Complete one of the following:
    - HPS 797 - Thesis
    - HPS 796 - Professional Paper

## **Plan Degree Requirements**

- 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.
- In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
- Pass the comprehensive oral examination. The comprehensive oral exam will be taken by all students after completion of the second semester of enrollment in the program. The exam will be pass/fail. Students who fail the exam may re-take the exam at the end of their third semester of enrollment. Students who fail their second attempt will be separated from the program. Students may not defend their thesis prospectus or proceed with their professional paper until successful completion of the oral exam. The exam will be administered by the graduate faculty from Health Physics.
- Continuously register for three credit hours of thesis or professional paper each semester while working on the thesis or professional paper until completion.
- Credit by Challenge Examination: Graduate courses in the Health Physics program may not be challenged for credit.
- Allotment of Credits: Students have a choice of catalog under which they wish to graduate
  - The year of official matriculation, or
  - 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 research project. The final examination must be held by the Graduate College deadline in the term in which the student plans to complete the degree requirements.

## **Graduation Requirements**

See Plan Graduation Requirements below.

## **Subplan 2 Requirements: Medical Physics**

Total Required Credits: 40

### **Course Requirements**

- Required Courses – Credits: 21
  - HPS 602 - Radiation Detection
  - HPS 603 - Radiation Physics and Instrumentation Laboratory
  - HPS 701 - Applied Nuclear Physics
  - HPS 703 - Radiation Interactions and Transport
  - HPS 720 - Radiation Dosimetry
  - HPS 730 - Advanced Radiation Biology
  - HPS 791 - Graduate Seminar -(three times)
- Core Courses – Credits: 13
  - HPS 740 - Medical Imaging Physics
  - HPS 740L - Diagnostic Medical Physics Clinical Rotation and Laboratory
  - HPS 742 - Radiation Therapy Physics
  - HPS 742L - Therapy Physics Clinical Rotation and Lab

- HPS 795 - Independent Study
- Culminating Experience – Credits: 6
  - Complete one of the following:
    - HPS 797 - Thesis
    - HPS 796 - Professional Paper

### **Plan Degree Requirements**

- 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.
- In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
- Pass the comprehensive oral examination. The comprehensive oral exam will be taken by all students after completion of the second semester of enrollment in the program. The exam will be pass/fail. Students who fail the exam may re-take the exam at the end of their third semester of enrollment. Students who fail their second attempt will be separated from the program. Students may not defend their thesis prospectus or proceed with their professional paper until successful completion of the oral exam. The exam will be administered by the graduate faculty from Health Physics.
- Continuously register for three credit hours of thesis or professional paper each semester while working on the thesis or professional paper until completion.
- Credit by Challenge Examination: Graduate courses in the Health Physics program may not be challenged for credit.
- Allotment of Credits: Students have a choice of catalog under which they wish to graduate
  - The year of official matriculation, or
  - 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 research project. The final examination must be held by the Graduate College deadline in the term in which the student plans to complete the degree requirements.

### **Graduation Requirements**

See Plan Graduation Requirements below.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her thesis or professional paper by the posted deadline. The thesis defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Health Physics & Diagnostic Sciences Courses**

### **HPS 602 - Radiation Detection**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**HPS 603 - Radiation Physics and Instrumentation Laboratory**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**HPS 616 - Advanced Health Physics****Credits 3**

Solutions to problems pertaining to radiation safety in the environment, industry, medical facilities, and nuclear reactors. Topics include shielding, accelerators, radon, non-ionizing radiation, and radiation dose-effect.

**Prerequisites:** HPS 300 and HPS 402, or equivalent.

**HPS 670 - Environmental Health Physics**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**HPS 680 - Industrial Hygiene**

This course has 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 - Applied Nuclear Physics****Credits 3**

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.

**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 703 - Radiation Interactions and Transport****Credits 3**

Decay energetics and kinetics; interactions of radiation with matter, radiation protection standards; practical aspects of radiation protection; photon, neutron, beta, and x-ray shielding, radioactive material transportation regulations, radiation transport. **Prerequisites:** HPS 701.

**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 719 - Introduction to Radioanalytical Chemistry****Credits 1**

Introduction to the principles and concepts of radioanalytical chemistry, such as the use of tracers, carriers and spikes and isotope dilution analysis. Sample preparation and techniques for radioanalytical separations and source preparation. Differences between macro chemistry and tracer chemistry. **Prerequisites:** 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 742L - Therapy Physics Clinical Rotation and Lab****Credits 3**

An introductory course dealing with the practical aspects of clinical therapeutic physics. Labs will be performed in a clinical setting and students will be introduced to the technology and procedures commonly encountered in a modern radiation therapy facility. **Prerequisites:** HPS 742.

**HPS 750 - Radiation Risk Assessment****Credits 3**

Descriptive and mathematical treatment of radionuclide transport, bioaccumulation, and human uptake. **Notes:** 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-ay spectrometry, data interpretation and laboratory quality control. **Notes:** 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 790 - Radiation Oncology Physics Clinical Internship****Credits 1-3**



Overview of clinical radiation oncology physics techniques including treatment planning, linear accelerator operation, commissioning and quality assurance, dose calibration and on-board imaging. **Notes:** May be repeated to a maximum of six credits.

### **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. **Notes:** 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. **Notes:** 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.

**Notes:** 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**

**Notes:** 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.

### **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 and Nutrition Sciences

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.

*Richard Tandy, Ph.D., Chair*

*Mark Guadagnoli, Ph.D., Graduate Coordinator*

### *Chair*

**Young, John C.** - *Full Graduate Faculty*

Professor; B.S.Ed., M.S., University of Michigan; Ph.D., University of Wisconsin, Madison. *Rebel since 1991.*

### *Graduate Coordinator*

**Tandy, Richard D.** - *Full Graduate Faculty*

Associate Professor; B.S., Appalachian State University; M.S., Ph.D., Texas A&M University. *Rebel since 1989.*

### *Graduate Admissions Coordinator*

**Wulf, Gabriele** - *Full Graduate Faculty*

Professor; Diploma, Ph.D., Deutsche Sporthochschule Koln; Ph.D., University of Munich. *Rebel since 2001.*

### *Graduate Faculty*

**Dufek, Janet S.** - *Full Graduate Faculty*

Associate Research Professor, B.S. University of Wisconsin, Superior; M.S. Illinois State University; Ph.D. University of Oregon. *Rebel since 2002.*

**Golding, Lawrence A.** - *Full Graduate Faculty*

Distinguished Professor; B.S., M.S., Ph.D., University of Illinois. *Rebel since 1976.*

**Guadagnoli, Mark A.** - *Full Graduate Faculty*

Professor; B.S., M.S., Texas A&M University; Ph.D., Auburn University. *Rebel since 1991.*

**Holcomb, William R.**

Associate Professor; B.S. Berry College; M.S. U.S. Sports Academy; Ph.D. Auburn University. *Rebel since 2001.*

**Kruskall, Laura J. - Full Graduate Faculty**

Associate Professor; B.A. Mount Saint Mary College; M.S. Columbia University; Ph.D. Pennsylvania State University. *Rebel since 1999.*

**Mangus, Brent C.**

Associate Professor; B.S., Utah State University; M.S., University of Oregon; Ed.D., University of Utah. *Rebel since 1985.*

**Mercer, John - Full Graduate Faculty**

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

**Rubley, Mack**

Assistant Professor; B.S., University of Colorado; M.S., Pennsylvania State University; Ph.D., Brigham Young University. *Rebel since 2001.*

## **Kinesiology and Nutrition Sciences Plans**

### **Master of Science - Exercise Physiology**

The Master of Science ,Äi 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.

### **Learning Outcomes**

<http://www.unlv.edu/degree/ms-exercise-physiology>

### **Plan 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 300 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:
  - A completed application for graduate studies.
  - Official transcripts of all colleges and universities attended.
- Interested applicants must upload the following information into the Apply Yourself system:
  - Copies of all transcripts sent to the Graduate College.
  - Official GRE scores.

- 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.
- Two letters of recommendation from persons familiar with the applicant, his academic record and potential for graduate study.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

Total Required Credits: 33

### **Course Requirements**

- Required Courses – Credits: 12
  - KIN 605 - Sports Nutrition
  - KIN 738 - Human Physiology
  - KIN 739 - Evaluation of Physical Working Capacity
  - KIN 740 - Advanced Exercise Physiology
- Research Courses – Credits: 6
  - KIN 750 - Research Methods
  - KIN 751 - Selected Application of Statistical Techniques I
- Elective Courses – Credits: 9
  - Complete 9 credits of advisor-approved elective coursework.
- Thesis – Credits: 6
  - KIN 749 - Thesis

### **Degree Requirements**

- Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
- Student must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Master of Science - Kinesiology**

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.

### **Learning Outcomes**

[www.unlv.edu/degree/ms-kinesiology](http://www.unlv.edu/degree/ms-kinesiology)

### **Plan 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) must be taken prior to applying. Successful applicants generally have a 3.00 undergraduate grade point average and a combined score of 300 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:

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

Interested applicants must upload the following information into the Apply Yourself system:

- Copies of all transcripts sent to the Graduate College.
- Official GRE scores.
- 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.
- Two letters of recommendation from persons familiar with the applicant, the academic record and potential for graduate study.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

See Subplan Requirements below.

### **Subplan 1 Requirements: Thesis Track**

Total Credits Required: 33

### **Course Requirements**

- Biomechanics Course – Credits: 3
  - Complete one of the following courses:
    - KIN 656 - Biomechanics of Endurance Performance
    - KIN 736 - Biomechanical Applications in Kinesiology
    - KIN 737 - Biomechanics of Strength
    - KIN 743 - Research Techniques in Biomechanics
- Motor Learning/Motor Control Course – Credits: 3
  - Complete one of the following courses:
    - KIN 760 - Motor Learning
    - KIN 761 - Human Motor Control
    - KIN 762 - Motor Learning Applications

- Exercise Physiology Course – Credits: 3
  - Complete one of the following courses:
    - KIN 605 - Sports Nutrition
    - KIN 657 - Physiology of Endurance Performance
    - KIN 691 - Exercise Physiology
    - KIN 692 - Clinical Exercise Physiology
    - KIN 738 - Human Physiology
    - KIN 739 - Evaluation of Physical Working Capacity
    - KIN 740 - Advanced Exercise Physiology
    - KIN 744 - Thermoregulation During Physical Work
    - KIN 745 - Human Energy Metabolism
- Research Courses – Credits: 6
  - KIN 750 - Research Methods
  - KIN 751 - Selected Application of Statistical Techniques I
- Specialization Courses – Credits: 9
  - Complete 9 credits of advisor-approved coursework. Research opportunities and course work are available in biomechanics, motor learning/motor control, and sports medicine.
- Elective Courses – Credits: 3
  - Complete 3 credits of advisor-approved elective coursework.
- Thesis – Credits: 6
  - KIN 749 - Thesis

## **Degree Requirements**

- Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
- The student must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Subplan 2 Requirements: Non-Thesis Track**

Total Credits Required: 33

## **Course Requirements**

- Biomechanics Course – Credits: 3
  - Complete one of the following courses:
    - KIN 656 - Biomechanics of Endurance Performance
    - KIN 736 - Biomechanical Applications in Kinesiology
    - KIN 737 - Biomechanics of Strength
    - KIN 743 - Research Techniques in Biomechanics

- Motor Learning/Motor Control Course – Credits: 3
  - Complete one of the following courses:
    - KIN 760 - Motor Learning
    - KIN 761 - Human Motor Control
    - KIN 762 - Motor Learning Applications
- Exercise Physiology Course – Credits: 3
  - Complete one of the following courses:
    - KIN 605 - Sports Nutrition
    - KIN 657 - Physiology of Endurance Performance
    - KIN 691 - Exercise Physiology
    - KIN 692 - Clinical Exercise Physiology
    - KIN 738 - Human Physiology
    - KIN 739 - Evaluation of Physical Working Capacity
    - KIN 740 - Advanced Exercise Physiology
    - KIN 744 - Thermoregulation During Physical Work
    - KIN 745 - Human Energy Metabolism
- Research Courses – Credits: 6
  - KIN 750 - Research Methods
  - KIN 751 - Selected Application of Statistical Techniques I
- Specialization Courses – Credits: 9
  - Complete 9 credits of advisor-approved coursework. Research opportunities and course work are available in biomechanics, motor learning/motor control, and sports medicine.
- Elective Courses – Credits: 6
  - Complete 6 credits of advisor-approved elective coursework.
- Professional Paper – Credits: 3
  - KIN 748 - Professional Paper

## **Degree Requirements**

- Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must successfully complete a professional paper.

## **Doctor of Philosophy - Kinesiology**

The Ph.D. program is designed specifically for professionals who desire tenure-track research, teaching, and administrative positions in postsecondary education. The Ph.D. program offers academic concentrations in Biomechanics, Exercise Physiology, and Motor Behavior.

## **Learning Objectives**

- Kinesiology Content Knowledge: demonstrate a broad conceptual knowledge of the Kinesiology field of study and develop related disciplinary content knowledge expertise in Biomechanics, Exercise Physiology, or Motor Behavior.
- Effectively communicate knowledge in the discipline: Demonstrate the ability to write and speak about current scholarship and issues of the discipline to peers, practitioners, and the public.
- Research Design: understand concepts pertinent to experimental research design relative to controlling internal and external threats to validity.
- Research Methods: understand and applying sound scientific methodology to pursue a research question.

## **Learning Outcomes**

[www.unlv.edu/degree/phd-kinesiology](http://www.unlv.edu/degree/phd-kinesiology)

## **Plan Admission Requirements**

- Admission to doctoral study will be granted to qualified applicants based on a combination of the following:
  - A master's degree from an accredited college or university
  - Official copies of all postsecondary transcripts
  - Professional vita or resume
  - Evidence of writing ability with appropriate examples including excerpt from a master's thesis, professional paper, or published article
  - Three letters of recommendation from previous instructors and/or professional colleagues attesting to the applicant's ability to complete a doctoral program of study
  - A detailed statement explaining why the student desires admission to the program
  - A personal interview with the department graduate faculty.
  - Satisfactory GRE test scores (taken within five years from the date of application for admission)
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

## *Admission Process*

- Contact the Department of Kinesiology prior to applying for admission. Applications for the Ph.D. program will be considered once per year and deadline for receipt of application is March 1.
- The online admissions application, fees, and transcripts should be submitted to the Graduate College. Further admission and application information may be obtained from the UNLV Graduate College website at: <http://graduatecollege.unlv.edu/admissions>.
- Three letters of recommendation, professional resume or vita, GRE scores, official copies of all college transcripts, evidence of writing ability (e.g., excerpt from masters' thesis, professional paper or published article), a detailed statement explaining why the student desires admission, and a statement demonstrating evidence of professional/ educational compatibility with program goals should be submitted through the online application system.
- As a final step in the admission process, a personal interview with the graduate faculty will be conducted.

## **Plan Requirements**

Total Required Credits: 66

## **Course Requirements**

- Content Knowledge Courses – Credits: 18
  - Complete 18 credits from the following course, or other advisor-approved courses.
    - KIN 747 - Graduate Seminar



- Cognate Area Courses – Credits: 18
  - Select two advisor-approved cognate areas and complete 9 credits of coursework in each area.
    - Biomechanics
      - KIN 615 - Introduction to Forensic Kinesiology
      - KIN 656 - Biomechanics of Endurance Performance
      - KIN 736 - Biomechanical Applications in Kinesiology
      - KIN 737 - Biomechanics of Strength
      - KIN 743 - Research Techniques in Biomechanics
    - Motor Behavior
      - KIN 614 - Enhancing Mental and Motor Abilities
      - KIN 760 - Motor Learning
      - KIN 761 - Human Motor Control
      - KIN 762 - Motor Learning Applications
    - Exercise Physiology
      - KIN 605 - Sports Nutrition
      - KIN 657 - Physiology of Endurance Performance
      - KIN 691 - Exercise Physiology
      - KIN 692 - Clinical Exercise Physiology
      - KIN 738 - Human Physiology
      - KIN 739 - Evaluation of Physical Working Capacity
      - KIN 740 - Advanced Exercise Physiology
      - KIN 744 - Thermoregulation During Physical Work
      - KIN 745 - Human Energy Metabolism
    - Sports Medicine
      - KIN 695 - Sports Medicine
      - KIN 730 - Organization and Administration of Athletic Training
      - KIN 731 - Orthopedic Assessment in Sports Medicine
      - KIN 733 - Psychological Aspects of Sport and Rehabilitation
      - KIN 734 - Therapeutic Intervention in Sports Medicine
      - KIN 735 - Sports Medicine Rehabilitation Principles and Practices
- Research Methodology Courses – Credits: 15
  - Complete 15 credits from the following list of courses, or other advisor-approved courses.
    - KIN 750 - Research Methods
    - KIN 751 - Selected Application of Statistical Techniques I
    - KIN 752 - Selected Application of Statistical Techniques II
- Prospectus Course – Credits: 3
  - PED 796 - Dissertation Prospectus
- Dissertation – Credits: 12
  - KIN 799 - Dissertation

## **Degree Requirements**

- Completion of a minimum of 66 credit hours with a minimum GPA of 3.00.
- Scholarly Product Requirement ,Ä each student must satisfy a scholarly product requirement. This requirement can be met in one of two ways:
  - Students may submit a research study to a refereed journal for publication.
  - Students may submit a proposal for presentation of research at an annual conference of a national organization.
- Student Advisory Committees - Students are required to select a graduate advisory committee by the end of their second semester.
  - Advisory committees must consist of three Kinesiology graduate faculty members (one of which can be an associate graduate faculty member) and a graduate college representative from outside of the department.

- The chair of the advisory committee must be a graduate faculty member in the Department of Kinesiology.
- Advisory committees should be informed prior to the student's completion of 16 credit hours.
- The committee oversees the student's progress, including the comprehensive exams.
- A temporary advisor is assigned until the student becomes acquainted with the faculty and selects his/her advisory committee.
- Comprehensive Examination
  - The student takes the comprehensive examination during the semester immediately preceding enrollment in dissertation.
  - The comprehensive examination consists of six questions in which the student is allotted two hours per question. Questions are constructed and scored by the student's advisory committee.
  - Students must file intent to take comprehensive examinations, adhering to timelines cited for other graduate programs scheduled by the Graduate College and the Department of Kinesiology. Students may petition the Kinesiology Graduate Faculty for permission to take comprehensive examinations pending approval of the advisory committee.
  - The questions on the comprehensive examination address elements of content knowledge, research methodology, and related discipline electives. The student's advisory committee provides general parameters from which questions are selected. Take-home examinations, in whole or in part, are not allowed. Students may use college provided technology for word-processing. Grading consists of two categories: Pass and Fail.
  - Upon receiving a passing grade for the written comprehensive examination, students will be required to pass an oral examination by their respective advisory committees. Students must successfully complete the written and oral comprehensive examinations before enrolling in dissertation hours.
- Dissertation Proposal and Defense
  - Following the successful completion of the written and oral comprehensive examinations, the student must submit a dissertation proposal to the Doctoral Advisory Committee and submit the accompanying Dissertation Prospectus Approval form from the Graduate College. The Doctoral Advisory Committee will determine the acceptability of the prospectus.
  - Upon approval of the prospectus, the student must obtain approval for the study from the Institutional Review Board for the Protection of Human Subjects.
  - Upon completion of the dissertation, a defense will be scheduled and conducted in accordance with the Graduate College's policy for dissertation completion. Students should obtain The Graduate Study Guide and the Guide to Preparing and Submitting a Thesis or Dissertation from the Graduate College web site.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
- The student must submit his/her approved, properly formatted hard-copy dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Kinesiology and Nutrition Sciences Courses**

### **CLS 612 - Clinical Immunology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 613 - Clinical Immunology Laboratory**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 614 - Transfusion - Immunohematology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 615 - Transfusion Medicine Immunohematology Laboratory**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 622 - Clinical Hematology I**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 623 - Clinical Hematology Laboratory I**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 624 - Clinical Hematology II**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 625 - Clinical Hematology Laboratory II**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 632 - Clinical Microbiology I**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 633 - Clinical Microbiology Laboratory I**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 634 - Clinical Microbiology II**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 635 - Clinical Microbiology Laboratory II**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 642 - Clinical Chemistry I**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 643 - Clinical Chemistry I Laboratory**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 644 - Clinical Chemistry II**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 645 - Clinical Chemistry II Laboratory**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 653 - Seminar in CLS IV**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 681 - Clinical Practicum in Hematology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 682 - Clinical Practicum in Chemistry**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 683 - Clinical Practicum in Immunohematology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 684 - Clinical Practicum in Microbiology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**CLS 685 - Advanced Clinical Practicum**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 601 - History of Exercise and Sport Science**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 605 - Sports Nutrition**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 614 - Enhancing Mental and Motor Abilities**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 615 - Introduction to Forensic Kinesiology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 656 - Biomechanics of Endurance Performance****Credits 3**

The primary objective of this course is to provide a study of endurance performance from a biomechanical perspective. At the conclusion of the course, the student will be able to apply biomechanical terminology to understand factors that influence endurance swimming, biking, and running performance, for example.

**KIN 657 - Physiology of Endurance Performance****Credits 3**

The primary objective of this course is to provide a study of endurance performance from an exercise physiology perspective. At the conclusion of the course, the student will be able to demonstrate an understanding of physiological factors that influence endurance swimming, biking, and running performance, for example.

**KIN 685 - Physical Activity and the Law**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 691 - Exercise Physiology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 692 - Clinical Exercise Physiology**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**KIN 695 - Sports Medicine**

This course has 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.

**Notes:** 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 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. **Notes:** May be taken for credit to a maximum of four credits.

### **KIN 748 - Professional Paper**

#### **Credits 1 – 6**

May be repeated but only three credits will be applied to the student's program. **Notes:** 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**

**Notes:** 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 755 - Research on Physical Activity Behavior**

#### **Credits 3**

Students review the scholarly literature pertaining to physical activity behavior. Papers with special implications for building a general knowledge base requisite to the conduct of research on physical activity behavior are read, discussed, and critically analyzed.

### **KIN 760 - Motor Learning**

#### **Credits 3**

Discussion of factors and practice methods that enhance the learning of motor skills (e.g., in sports, physical or occupational therapy, athletic training, music). Topics include observational learning, providing feedback, attentional focus, practice scheduling, implicit learning, learner-controlled practice, social-cognitive influences, and enhancing learner expectancies.

### **KIN 761 - Human Motor Control**

#### **Credits 3**

Advanced studies in motor control, including sensory and central contributions to movement control, balance, movement observation, focus of attention, mindset, social-cognitive-affective influences on motor performance.

### **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 775 - Internship in Athletic Administration**

#### **Credits 3**

The internship in Athletics is a culminating experience that provides an opportunity to apply knowledge and skills learned in the academic program while working within an athletic administration or related organization. Students will work under the direction of a supervisor in a area related to their selected interest for future employment. **Notes:** May be repeated to a maximum of six credits.

### **KIN 788 - Independent Study**

#### **Credits 1-3**

Independent Study

### **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.

**KIN 799 – Dissertation****Credits 1 – 12**

Culminating research analysis and writing toward completion of dissertation and subsequent defense.



## **Physical Therapy**

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 112 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 degree 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.

*Merrill Landers, PT, DPT, PhD, Chair*  
*Emilio Puentedura, Ph.D., Graduate Coordinator*  
*Carrie Gillis, Ph.D., Graduate Coordinator*

### ***Chair***

#### **Landers, Merrill - Full Graduate Faculty**

Associate Professor; B.S., Brigham Young University; D.P.T., Creighton University; Ph.D., University of Nevada Las Vegas. *Rebel since 2001.*

### ***Graduate Coordinator***

#### **Puentedura, Emilio - Full Graduate Faculty**

Associate Professor; B.App.Sc. and G.D.M.T., Lincoln Institute of Health Sciences, La Trobe University, Australia; D.P.T., Northern Arizona University; Ph.D. Nova Southeastern University. *Rebel since 2007.*

### ***Graduate Faculty***

#### **Gillis, Carrie**

Administrative Clinical Coordinator; B.S., Oklahoma City University; D.P.T., University of Nevada Las Vegas. *Rebel since 2012.*

#### **Hickman, Robbin - Full Graduate Faculty**

Associate Professor; B.S., California State University, Long Beach; M.H.S., University of Indianapolis; D.Sc., Rock Mountain University of Health Professionals. *Rebel since 2007.*

#### **Ho, Kai-Yu - Full Graduate Faculty**

Assistant Professor; B.S. and M.S., National Chen Kung University, Taiwan; Ph.D., University of Southern California. *Rebel since 2013.*

**Schuerman, Sue** - *Full Graduate Faculty*

Assistant Professor; B.S., University of Nebraska; M.B.A., University of Massachusetts, Ph.D., University of Nebraska. *Rebel since 2006.*

**Young, Danny** - *Full Graduate Faculty*

Associate Professor; B.S., Southern Utah University; D.P.T., Creighton University. *Rebel since 2007.*

**Turner, Cassy**- *Full Graduate Faculty*

Assistant Professor; B.S. and D.P.T., University of Nevada Las Vegas. *Rebel since 2011.*

**Lee, Szu-Ping**- *Full Graduate Faculty*

Assistant Professor; B.S., National Yang-Ming University, Taiwan; M.S., University of Florida; Ph.D., University of Southern California. *Rebel since 2012.*

## **Physical Therapy Plan**

### **Doctor of Physical Therapy**

The course of study at the University of Nevada, Las Vegas is an entry-level professional program designed to prepare students to enter the profession of physical therapy. A Doctor of Physical Therapy Degree is awarded following the successful completion of the program that consists of intense academic and clinical work spread over six semesters and three summers. Students are prepared as generalists, but also have an opportunity to investigate specialized aspects of physical therapy through numerous clinical exposures. The program of study consists of 112 credit hours of graduate course work. These hours are divided among classroom, clinical, and research activities.

#### **Learning Outcomes**

[www.unlv.edu/degree/dpt](http://www.unlv.edu/degree/dpt)

#### **Plan Admission Requirements**

Admission to the program is limited to 34 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 “Non-Degree 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 15th 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.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

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

- 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.
- 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.
- A composite score of 300 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.
- 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](http://www.ptcas.org) to complete your application.
- The following are required with your application to PTCAS:
  - 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.
  - An autobiographical statement of approximately 300 words describing the student's professional goals and reasons for seeking graduate education in physical therapy.
  - 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.
- An interview will be required.

*Information to be submitted to the Graduate College:*

- Complete and submit the Graduate College online application for admission, with appropriate fees.
- Official transcripts from all previous college and professional schools.

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:

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

### *Objectives*

- To prepare students to be the purveyors of physical therapy practice through clinical excellence, critical thinking, scientific inquiry, and social responsibility.
- To prepare students to differentially diagnose enabling them to establish an appropriate plan of care and provide referral as necessary.
- 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.
- 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.
- To educate students in the design and implementation of culturally competent health care.
- 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.
- 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.
- 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.
- To prepare graduates to assume a leadership role in addressing critical issues that affect clinical practice, education, research, and public policy.
- 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.
- To prepare graduates to demonstrate understanding of medico-legal issues in physical therapy practice through active involvement in professional organization.
- To educate students on the benefits of working interdependently with other health care professionals using a team approach to patient care.

### **Plan Requirements**

Total Credits Required: 112

### **Course Requirements**

- Summer Semester 1st Year Courses – Credits: 8
  - DPT 726 - Evidenced-Based Practice in Physical Therapy I
  - DPT 727 - Evidence-Based Practice in Physical Therapy II
  - DPT 744 - Gross Anatomy I
  - DPT 744L - Gross Human Anatomy Lab I
  - DPT 745 - Gross Anatomy II
  - DPT 745L - Gross Human Anatomy Lab II
- Fall Semester 1st Year Courses - Credits: 19
  - DPT 730 - Foundations of Observation and Assessment
  - DPT 730L - Foundations of Observation and Assessment Lab
  - DPT 741 - Orthopaedic Principles
  - DPT 742 - Clinical and Pathological Physiology
  - DPT 746 - Neuroanatomy
  - DPT 746L - Neuroanatomy Lab
  - DPT 749 - Applied Exercise Physiology

- DPT 749L - Applied Exercise Physiology Lab
- Spring Semester 1st Year Courses - Credits: 20
  - DPT 732 - Therapeutic Exercise
  - DPT 732L - Therapeutic Exercise Lab
  - DPT 735 - Functional Training and Acute Care
  - DPT 735L - Functional Training and Acute Care Lab
  - DPT 748 - Pharmacology
  - DPT 754 - Orthopaedic Assessment in Physical Therapy
  - DPT 754L - Orthopaedic Assessment in Physical Therapy Lab
  - DPT 756 - Neurophysiology
  - DPT 790 - Clinical Research in Physical Therapy
- Summer Semester 2nd Year Courses - Credits: 8
  - DPT 740 - Movement Science
  - DPT 752 - Physical Agents and Electrophysiology
  - DPT 752L - Physical Agents and Electrophysiology Lab
  - DPT 761 - Supervised Clinical Education I
- Fall Semester 2nd Year Courses - Credits: 16
  - DPT 720 - Professional Development
  - DPT 757 - Wound Care
  - DPT 770 - Cardiopulmonary Rehabilitation
  - DPT 770L - Cardiopulmonary Rehabilitation Lab
  - DPT 785 - Orthopaedic Rehabilitation
  - DPT 785L - Orthopaedic Rehabilitation Lab
  - DPT 786 - Neurological Rehabilitation
  - DPT 786L - Neurologic Rehabilitation Laboratory Experience
  - DPT 791 - Applied Research Statistics
- Spring Semester 2nd Year Courses - Credits: 15
  - DPT 747 - Geriatric Examination and Intervention
  - DPT 750 - Prosthetics and Orthotics
  - DPT 750L - Prosthetics and Orthotics Lab
  - DPT 758 - Diagnostic Testing and Imaging
  - DPT 759 - Pediatric Rehabilitation
  - DPT 759L - Pediatric Rehabilitation Laboratory Experience
  - DPT 780 - Balance and Vestibular Rehabilitation
  - DPT 788 - Spine Examination and Treatment
  - DPT 788L - Spine Examination and Intervention Lab
  - DPT 793 - Seminar
- Summer Semester 3rd Year Courses - Credits: 6
  - DPT 751 - Women's Health in Physical Therapy
  - DPT 772 - Physical Therapy Administration
  - DPT 774 - Psychosocial Aspects of Physical Therapy
- Fall Semester 3rd Year Courses - Credits: 10
  - DPT 762 - Supervised Clinical Education II
  - DPT 763 - Supervised Clinical Education III
- Spring Semester 2nd Year Courses - Credits: 9
  - DPT 764 - Supervised Clinical Education IV
  - DPT 798 - Directed Research(3 credits)

#### **\*Course Fee**

#### **Degree Requirements**

- Satisfactory completion of the 112 credits of the Physical Therapy program including the required period of clinical education with a grade point average of 3.00 or higher on a scale of 4.00.
- Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

- 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.
- The student will not progress in the program if any of the following occur:
  - An earned F in any didactic course. This results in immediate separation without the option for reapplication.
  - Failure of a third attempt of any clinical competency check-off with the exception of the final practical exam.
  - A failure of a final practical exam (different than the competency check-off).
  - A grade of C+ or below in more than one course in any semester.
  - Inability to rectify probationary status within the time frame allotted by the ARC.
  - A student on probation whose actions warrant probation in another category (academic, professional behavior, clinical) may also be separated.
- 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.
- The students must follow the proposed curriculum in the specified time frames unless otherwise approved by the ARC, Department Chair, and Graduate Dean.
- Credit by Challenge Examination: Graduate courses in the Department of Physical Therapy may not be challenged for credit.
- The program must be completed within six years from the date of matriculation. The chair/director will evaluate potential exceptions.
- 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.
- 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.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully present his/her final research project, professional paper, or case report by the posted deadline. The presentation must be advertised and is open to the public.
- The student must submit his/her approved, properly formatted hard-copy research project, professional paper, or case report to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Physical Therapy Courses**

**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 DPT 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 2**

Holistic approach to evaluation and management of patients with various orthopaedic pathologies and other related movement dysfunction. Emphasis placed on theoretical basis of specific exercise physiology, therapeutic exercise and functional training skills interrelated with clinical decision-making methodology. Rationale for and implementation of treatments with safety awareness and proper body mechanics. **Prerequisites:** DPT 730, DPT 730L; DPT 741 DPT 741L; DPT 744 DPT 744L; DPT 745 DPT 745L. **Corequisite:** DPT 732L.

### **DPT 732L - Therapeutic Exercise Lab**

#### **Credits 1**

Laboratory sessions to practice the evaluation and management of patients (and patient scenarios) with various orthopaedic pathologies and other related movement dysfunctions. Emphasis on exercise prescription and demonstration, as well as progression. **Prerequisites:** DPT 730, DPT 730L; DPT 741 DPT 741L; DPT 744 DPT 744L; DPT 745 DPT 745L. **Corequisite:** DPT 732.

### **DPT 735 - Functional Training and Acute Care**

#### **Credits 4**

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 740 - Movement Science**

#### **Credits 2**

This course will introduce students to principles and theories in movement science. Students will be introduced to concepts related to motor control, motor development, and motor learning. Students will also apply these principles to the clinical practice of physical therapy and to observe and assess related phenomena in patients. **Prerequisites:** Enrollment in professional DPT curriculum.

### **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 2**

Evaluation of medical, surgical and prosthetic and rehabilitation management of amputations. Discussion of design, fabrication and fitting of prosthetic devices as well as general orthotic principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. **Prerequisites:** Graduate standing in Physical Therapy. **Corequisite:** DPT 750L

**DPT 750L - Prosthetics and Orthotics Lab****Credits 1**

Application of medical, surgical and prosthetic and rehabilitation management of amputations. Design, fabrication and fitting of prosthetic devices as well as general orthotic principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. **Prerequisites:** Graduate standing in Physical Therapy. **Corequisite:** DPT 750

**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 an 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 3**

Evaluation and assessment of upper and lower extremity orthopaedic problems. Discussion and application of functional anatomy, biomechanics, and evaluative manual therapy skills used to differentially diagnose orthopaedic pathologies and disorders. **Prerequisites:** DPT 730, DPT 730L, DPT 741, DPT 744, DPT 744L, DPT 745, DPT 745L. **Corequisite:** DPT 754L

**DPT 754L - Orthopaedic Assessment in Physical Therapy Lab****Credits 1**

Evaluation and assessment of upper and lower extremity orthopaedic problems. Practical application of functional anatomy, biomechanics, and evaluative manual therapy skills used to differentially diagnose orthopaedic pathologies and disorders. **Prerequisites:** DPT 730, DPT 730L, DPT 741, DPT 744, DPT 744L, DPT 745, DPT 745L. **Corequisite:** DPT 754

**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 759 - Pediatric Rehabilitation****Credits 2**

Provides foundational knowledge of development (typical and atypical) and an overview of pediatric physical therapy practice for children with atypical development. Presents examination, evaluation, and development of physical therapy plans of care for children with various disabilities within the frameworks of family-centered care and disablement/enableness models. **Prerequisites:** Graduate standing in Physical Therapy. **Corequisite:** DPT 759L

**DPT 759L - Pediatric Rehabilitation Laboratory Experience****Credits 1**

Focuses on application of developmental concepts and an overview of pediatric physical therapy practice for children with atypical development. Provides students with opportunities to observe/engage in examination, evaluation, and development of physical therapy plans of care for children with various disabilities within the frameworks of family-centered care and enablement models. **Prerequisites:** Graduate standing in Physical Therapy. **Corequisite:** DPT 759

**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 780 - Balance and Vestibular Rehabilitation****Credits 2**

This course will introduce students to principles and theories of rehabilitation for the patient with balance dysfunction. There will be emphasis on sound clinical reasoning and assessment of balance impairment and disability. Students will be exposed to theoretical applications of different treatment modalities in balance and vestibular rehabilitation. **Prerequisites:** Enrollment in professional DPT curriculum.

**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 and DPT 785 and DPT 786. **Corequisite:** DPT 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 and DPT 785 and DPT 786. **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 793 – Seminar**

#### **Credits 1**

Preparation and presentation of seminars on topics of current interest in physical therapy and rehabilitation. Topic changes by semester and by course instructor; see class schedule for details. **Prerequisites:** Enrollment in professional DPT curriculum.

### **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. **Notes:** 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. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** DPT 790

### **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

### **PTS 747 - Human Neuroanatomy**

#### **Credits 3**

High level immersion, including cadaveric prosection, into the anatomy of the central nervous system, emphasizing structure and functional relationships. Coursework will also relate these structural relationships to brain dysfunction and pathology. **Prerequisites:** Graduate standing.

## 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. Today's dental professional needs a learning environment that offers interaction with other medical professionals and facilitates diagnosis and treatment to improve the patient's overall health. 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, D.M.D., Dean, School of Dental Medicine*

*Christine C. Ancajas, D.D.S., Assistant Dean for Admission and Student Affairs*

*William D. Davenport, Jr., Ph.D., Associate Dean for Academic Affairs*

*Ellen V. Herrick, Assistant Dean of Finance and Administration*

*Ronald R. Lemon, D.M.D., Associate Dean, Advanced Education*

*Connie C. Mobley, Ph.D., Associate Dean for Research*

*Judith Skelton, Ph.D., Assistant Dean for Outreach and Engagement*

*Rick B. Thiriot, D.D.S., Co-Associate Dean for Clinical Services*

*Wendy S. Woodall, D.D.S., Co-Associate Dean for Clinical Services*

## School of Dental Medicine Faculty

### *Dean*

**West, Karen** - Full Graduate Faculty

Professor; D.M.D., University of Louisville School of Dentistry; M.P.H., University of South Carolina School of Public Health.

### *Associate and Assistant Deans*



**Lemon, Ronald** - *Full Graduate Faculty*

Professor; D.M.D., University of Kentucky, School of Dental Medicine.  
Co-Associate Dean for Clinical Services

**Thiriot, Rick**

Assistant Professor-in-Residence; B.S., University of Nevada, Las Vegas; D.D.S., University of the Pacific School of Dentistry.  
Assistant Dean

**Herrick, Ellen**

B.S., University of Nevada, Las Vegas.  
Assistant Dean for Admissions and Student Affairs

**Ancajas, Christine** - *Assistant Graduate Faculty*

B.A., California State University; D.D.S., Northwestern University Dental School.  
Assistant Dean for Outreach and Engagement

**Skelton, Judith** - *Full Graduate Faculty*

Professor; B.S., University of Louisville; M.E.D., University of Florida; Ph.D., University of Florida.

*Graduate Faculty*

**Bethea, Lorenzo**

B.S., University of Phoenix.

**Capurro, Antonina**

Visiting Professor; B.S., University of Nevada, Las Vegas; D.M.D., University of Nevada, Las Vegas; M.P.H., University of Nevada, Las Vegas.

**Cole, Dean**

Associate Professor; A.A., Pasadena City College; D.D.S., Loyola University.

**Danforth, Robert**

Associate Professor; D.D.S., Loma Linda University.

**Davenport Jr., William** - *Full Graduate Faculty*

Professor; B.S., University of Mississippi; M.S., University of Mississippi; Ph.D., Medical College of Georgia.

**Demopoulos, Christina**

Assistant Professor-in-Residence; B.S., University of Nevada, Las Vegas; D.D.S., University of Southern California School of Dentistry; M.P.H., University of Nevada, Las Vegas.

**Ditmyer, Marcia** - *Full Graduate Faculty*

Assistant Professor; B.S., Wayne State University; Ph.D., University of Toledo.

**Dounis, Georgia**

Associate Professor; D.D.S., Marquette University, School of Dentistry; M.S., Marquette University School of Dentistry.

**Evans, Laurie**

B.S.B.A., University of Phoenix; M.B.A, University of Phoenix.

**Everett, Rhonda** - *Full Graduate Faculty*

Assistant Professor in Residence; B.A., University of California; D.D.S., University of Southern California, School of Dentistry; M.P.H., University of Nevada, Las Vegas.

**Farfel, Elena**

Visiting Assistant Professor; B.A., University of Colorado; D.M.D., University of Nevada, Las Vegas.

**Faulkner, Davin**

Visiting Assistant Professor; B.S., Brigham Young University; D.M.D., University of Nevada, Las Vegas.

**Fox, Gerald**

Visiting Assistant Professor; B.S., Brooklyn College; D.D.S., Temple University School of Dentistry.

**Galbraith, Gillian** - *Full Graduate Faculty*

Professor, M.D., University of London, King's College Hospital Medical School.

**Gallob, John**

Assistant Professor-in-Residence; B.S., University of Arizona-Tucson; D.D.S., Nova Southeastern University.

**Gerrard, Curtis**

B.A., University of Nevada, Las Vegas; M.A., Regis University.

**Haskin, Christine**

Associate Professor; B.A., University of Texas at Austin; M.S., Southwest Texas State University; D.D.S., University of Texas; Ph.D., University of Texas.

**Herschaft, Edward** - *Full Graduate Faculty*

Professor; B.A., Queens College of the City University of New York; D.D.S., West Virginia University School of Dentistry; M.A., University of New Orleans.

**Hillyard, Stanley** - *Full Graduate Faculty*

Professor; B.A., University of California, Riverside; Ph.D., University of California, Los Angeles.

**Howard, Katherine** - *Full Graduate Faculty*

Assistant Professor; B.Sc., Texas A & M University; Ph.D., University of Texas.

**Hughes, Cody** - *Full Graduate Faculty*

Assistant Professor-in-Residence; D.M.D., University of Nevada, Las Vegas, School of Dental Medicine; M.S., Indiana University.

**Hurlbut, Bernard** - *Full Graduate Faculty*

Assistant Professor-in-Residence; B.A., Arizona State University; D.D.S., Baylor College of Dentistry.

**Ingel, Andrew**

Visiting Assistant Professor-in-Residence; B.S., Villanova University; M.S., Bryn Mawr College; D.M.D., University of Pittsburgh School of Dental Medicine.

**Jones, Francis**

Assistant Professor-in-Residence; B.A., California State University; D.D.S., Meharry Medical College.

**Joyner-Tucker, Arlene**

Assistant Professor-in-Residence; B.S., North Carolina University; D.D.S., Howard University College of Dentistry; M.P.H., University of California, Los Angeles.

**Kingsley, Karl** - *Full Graduate Faculty*

Associate Professor; B.A., New Mexico State University; B.B.A., New Mexico State University; Ph.D., University of Nevada, Las Vegas; M.P.H., University of Nevada, Las Vegas.

**Kirit, Theodore**

Associate Professor-in-Residence; M.D., University of Bucharest, School of Medicine; D.D.S., University of Bucharest, Romania, School of Dentistry; M.S., New York University.

**Kuprienko, Kirstina**

Visiting Assistant Professor; B.S., University of Nevada, Las Vegas; D.M.D., University of Nevada, Las Vegas School of Dental Medicine.

**Leavitt, William**

Visiting Professor-in-Residence; B.A., Brigham Young University; M.P.A., University of Southern California; D.D.S., University of the Pacific.

**Lockhart, Robert**

Associate Professor-in-Residence; D.D.S., Indiana University of Dentistry; M.S., University of Missouri, Kansas City.

**Mack, Michael**

B.S., University of Nevada, Las Vegas.

**Mah, James - Full Graduate Faculty**

B.S., University of Alberta, Edmonton; D.D.S., University of Alberta, Edmonton; M.S., University of Alberta, Edmonton; D.M.Sc., Harvard University.

**Martin, Bob- Assistant Graduate Faculty**

Assistant Professor-in-Residence; B.S., Bridgewater College; D.D.S., Medical College of Virginia.

**McAlpine, George**

B.A., University of Illinois; D.D.S., Loyola University; M.S., University of Texas, Health Sciences Center, Dental Branch and Wilford-Hall medical Center.

**McClain, Mildred - Full Graduate Faculty**

Assistant Professor; A.S., University of Nevada, Las Vegas; B.S., University of Nevada, Las Vegas; M.Ed., University of Nevada, Las Vegas; Ph.D., University of Nevada, Las Vegas.

**Mobley, Connie - Full Graduate Faculty**

Professor; B.S., University of Southern Louisiana; M.S., Florida International University; Ph.D., Texas A & M.

**Nelson, Stanley**

Professor; B.S., Albion College; D.D.S., University of Michigan School of Dentistry; M.S., University of Michigan School of Dentistry.

**Neubauer, Michael**

Associate Professor-in-Residence; B.S., University of California; D.D.S., University of California; M.S., University of Iowa.

**O'Grady, Cynthia**

B.A., University of Oregon; M.A., King's College.

**Ord, David**

Assistant Professor-in-Residence; B.S., Brigham Young University; D.D.S., University of Southern California.

**Orr II, Daniel**

Professor-in-Residence; B.S., Brigham Young University; D.D.S., University of Southern California School of Dentistry; M.S., University of Utah School of Medicine, Department of Anesthesiology; Ph.D., Columbia Pacific

University; J.D., William Howard Taft University School of Law; M.D., University of Health Sciences, Antigua School of Medicine.

**Phillips, Randy**

Assistant Professor-in-Residence; B.A., University of California at Los Angeles; D.D.S., University of Southern California School of Dentistry.

**Phipps, Flora Monique**

Assistant Professor-in-Residence; B.S., Hampton University; D.D.S., Virginia Commonwealth University.

**Reinke, Robin**

Assistant Professor-in-Residence; B.S., University of Puget Sound; D.D.S., University of Washington School of Dentistry; M.P.A., Keller Business School of Management of Devry University.

**Rothbart, Jonathan**

Associate Professor-in-Residence; A.B., Brandeis University; D.M.D., Boston University Goldman School of Graduate Dentistry.

**Sanders, R. Michael**

Professor; D.M.D., College of Medicine and Dentistry; Ed.M., Rutgers University; M.P.H., Robert Woods Johnson Medical School.

**Scherer, Michael**

Assistant Professor-in-Residence; B.S., University of Miami; D.M.D., Nova Southeastern University; M.S., Ohio State University.

**Self, McKinley**

Assistant Professor-in-Residence; B.S., University of Utah; D.M.D., Case Western Reserve University.

**Seran, Clifford - Full Graduate Faculty**

Assistant Professor; B.S., Bucknell University; D.M.D., University of Pennsylvania.

**Tham, Foeng (Bill)**

Visiting Assistant Professor; B.A., Union College; D.D.S., University of Missouri; J.D., Concord University School of Law.

**Tozzi, Raymond**

Assistant Professor-in-Residence; B.S., St. Francis College; D.D.S., Georgetown University School of Dentistry.

**Walker Jr., Richard**

Professor; B.A., Westminster College; D.D.S., University of Missouri at Kansas City.

**Walter, Philip - Full Graduate Faculty**

B.A., Indiana University; D.D.S., Indiana University.

**Wasden, Jason**

B.S., University of Nevada, Las Vegas; M.P.A., University of Nevada, Las Vegas; Ph.D., University of Nevada, Las Vegas.

**Webberson, Michael**

Assistant Professor-in-Residence; B.S., University of Nevada, Las Vegas; D.D.S., Creighton University School of Dentistry.

**Woo, Victoria**

Associate Professor-in-Residence; D.D.S., University of Western Ontario.

**Woodall, Wendy**

Assistant Professor; B.A.S.S., Stephen F. Austin State University; D.D.S., University of Texas.

**Zhou, Wenlian**

Assistant Professor; D.D.S., Beijing Medical University School of Stomatology General Dentistry; Ph.D., Peking University Health Science Center, School of Stomatology Orthodontics; D.M.D., University of Nevada, Las Vegas, School of Dental Medicine.

**Zoller, Lawrence**

Professor-in-Residence; M.A., Rutgers University; Ph.D., University of Pennsylvania.

**School of Dental Medicine Plan****Master of Science - Oral Biology**

The future of oral health medicine is dependent upon significant orthodontic and craniofacial research. Masters of Science – Oral Biology emphasizes orthodontic and craniofacial research and aims to aid developing orthodontic residents in becoming successful researchers, educators and/or clinicians. It does this by providing a diverse clinical experience with a strong integration of basic sciences. This program will equip residents with the clinical, the analytical and the managerial skills that are necessary to provide oral healthcare to the community.

**Learning Outcomes**

[www.unlv.edu/degree/certificate-orthodontics-dentofacial-orthopedics-ms-oral-biology](http://www.unlv.edu/degree/certificate-orthodontics-dentofacial-orthopedics-ms-oral-biology)

**Plan Admission Requirements**

In addition to being accepted to the UNLV Graduate College, prospective students must meet the following criteria.

- Must have passed Parts I and II, National Dental Board Examination.
- Must have earned a DMD/DDS degree from a program in the US or Canada that is fully accredited by the Commission on Dental Accreditation
- Must be eligible for a Nevada state dental license and receive a full or limited dental license from the Nevada State Board of Dental Examiners prior to engaging in any clinical activity.
- Application through the Postdoctoral Application Support Service (PASS) including specified letters of recommendations.
- Background and criminal checks as required.
- Medical history, immunizations and physicals as required.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

**Plan Requirements**

Total Credits Required: 147

**Course Requirements**

- Required Courses – Credits: 141
  - ORTH 8001 - Introduction to Orthodontics (4 Credits)
  - ORTH 8011 - Cephalometrics (2 Credits)

- ORTH 8102 - Clinical Specialty Seminars I (2 Credits)
- ORTH 8103 - Clinical Specialty Seminars II (3 Credits)
- ORTH 8104 - Clinical Specialty Seminars III (3 Credits)
- ORTH 8201 - Introduction to Clinic Orthodontics (4 Credits)
- ORTH 8202 - Clinic Orthodontics (6 Credits)
- ORTH 8203 - Clinic Orthodontics (6 Credits)
- ORTH 8204 - Clinic Orthodontics (6 Credits)
- ORTH 8205 - Clinic Orthodontics (6 Credits)
- ORTH 8206 - Clinic Orthodontics (12 Credits)
- ORTH 8207 - Clinic Orthodontics (2 x 6 Credits)
- ORTH 8512 - Biomechanical Principles (2 Credits)
- ORTH 8513 - Growth and Developmentes (2 Credits)
- ORTH 8518 - Orthodontic Materials (2 Credits)
- ORTH 8602 - Diagnosis, Treatment Planning and Case Presentation (4 Credits)
- ORTH 8603 - Diagnosis & Treatment Plan (4 Credits)
- ORTH 8604 - Diagnosis & Treatment Plan (4 Credits)
- ORTH 8605 - Diagnosis, Treatment Planning and Case Presentation (4 Credits)
- ORTH 8606 - Diagnosis, Treatment Plan and Case Presentation (8 Credits)
- ORTH 8607 - Diagnosis & Treatment Plan (2 x 2 Credits)
- ORTH 8803 - Literature Review/Journal Club (2 Credits)
- ORTH 8804 - Literature Review/Journal Club (2 Credits)
- ORTH 8805 - Literature Review/Journal Club
- ORTH 8910 - Craniofacial Anomalies (2 Credits)
- PGDE 8312 - Independent Research I (3 Credits)
- PGDE 8313 - Independent Research II (3 Credits)
- ORTH 8314 - Advanced Research (1 Credits)
- PGDE 8315 - Independent Research III (3 Credits)
- PGDE 8316 - Independent Research (3 Credits)
- PGDE 8402 - Biomedical Sciences Core I (2 Credits)
- PGDE 8403 - Biomedical Sciences Core II (4 Credits)
- PGDE 8415 - Advanced Biomedical Sciences (2 Credits)
- PGDE 8503 - Interdisciplinary Diagnosis and Treatment Planning (2 Credits)
- PGDE 8516 - Advanced Clinical Sciences: Radiology (2 Credits) 4 cr
- PGDE 8517 - Temporomandibular Disorders and Occlusion (2 Credits)
- PGDE 8701 - Methods of Literature Review/Scientific Writing (2 Credits)
- PGDE 8702 - Research Methodology, Biostatistics & Epidemiology (2 Credits)
- PGDE 8703 - Research Methods II (2 Credits)
- PGDE 8715 - Professional Studies Core: Practice Management (2 Credits)
- Thesis – Credits: 6
  - PGDE 8901 - Thesis

## **Degree Requirements**

- The Master of Science – Oral Biology program is designed to be a three year program (divided as follows: Year 1: 3 trimesters (summer, fall, spring); Year 2: 2 semesters (Fall July-Dec, and Spring Jan-June); and Year 3: fall semester).
- The advanced program in Orthodontics and Dentofacial Othopedicas is accredited by the Commission on Dental Accreditation; as such graduates of UNLV School of Dental Medicine’s Oral Biology program will also receive a certificate in Orthodontics and Dentofacial Orthopedics which is required for licensure.
- In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

## **Dual Degree: Master of Business Administration & Doctor of Dental Medicine**

The University of Nevada, Las Vegas School of Dental Medicine and the Lee Business School offer a dual Doctorate of Dental Medicine (DMD) and Master of Business Administration (MBA) degree program that allows students to be admitted in both programs and achieve the DMD and MBA degrees. As a concurrent program, the dual degree requires that students satisfy the degree requirements of both programs. The dual Master of Business Administration and Doctorate of Dental Medicine (MBA and DMD) program is designed for those who seek career and business leadership opportunities in the field of dentistry. Students will receive two degrees, an MBA and a DMD.

The MBA degree at the Lee Business School requires 42 credit hours. The Dental degree requires 195 credit hours. Under the dual degree program 12 credit hours of dental courses are accepted towards the MBA degree.

### **Learning Outcomes**

[www.unlv.edu/degree/dual-mba-dmd](http://www.unlv.edu/degree/dual-mba-dmd)

### **Plan Admission Requirements**

Applicants to the DMD/MBA program must submit formal applications for admission to both the School of Dental Medicine and to the Lee Business School. Students must meet the requirements for admission to both programs. Admissions requirements are the same as those stated under the DMD and MBA programs. Contact the UNLV School of Dental Medicine and the Lee Business School MBA programs for further information on admissions requirements. Applications from current students in either program will be considered. Entry into the MBA program for students from the School of Dental Medicine will be no earlier than the fall semester of year two of the dental curriculum. However, petitions requesting admission to the dual DMD/MBA program from students at more advanced stages will be considered.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

Total Credits Required: 216

### **Course Requirements**

- Total Credits Required for the Business Administration M.B.A.: 30
- MBA Core Required Courses – Credits: 27
  - MBA 761 - Accounting for Managers
  - MBA 763 - Leadership, Teams, and Individuals
  - MBA 765 - Financial Decision Making
  - MBA 767 - Market Opportunity Analysis
  - MBA 769 - Applied Economic Analysis
  - MBA 771 - Law and Ethics
  - MBA 773 - Managing Information
  - MBA 775 - Data Modeling and Analysis
  - MBA 779 - Managing Supply Chains
- Capstone Course – Credits: 3
  - MBA 787 - Strategic Management
- Total Credits Required for the Doctor of Dental Medicine: 186

## **Degree Requirements**

- Students must be admitted to both the DMD and MBA programs with graduate standing. The candidates must successfully complete the 186 credit hours of Dentistry and the 30 credit hours of the MBA required course work.

Furthermore:

- UNLV School of Dental Medicine cannot award credit for any class taken before matriculation.
- A maximum of six credit hours of courses taken prior to admission to the DMD/MBA program may be applied towards the MBA degree requirement. This includes all courses taken as a fully admitted graduate MBA student at an AACSB accredited business school, as an admitted dental student at UNLV, or as a non-admitted student at UNLV before admission to the MBA program.
- DMD/MBA candidates who subsequently decide to pursue only the DMD or only the MBA must complete the degree program in its entirety and are subject to the same rules and requirements as students not pursuing the DMD/MBA program.
- DMD/MBA may not receive credit for taking courses outside their degree program except as set forth in this document and with prior approval.
- Student honors and class ranks at the School of Dental Medicine will be computed based solely on dental classes. Student honors and class ranks at the Lee Business School will be computed based solely on business classes.
- Students in the DMD/MBA program must remain in good standing at both DMD and MBA programs.
- Students in the DMD/MBA program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the Lee Business School.
- The Lee Business School and the School of Dental Medicine reserve the right to limit participation in the program, including dismissal. Those interested are encouraged to submit a request for permission to participate in the program, along with applications for admission, at the earliest possible time.

## **Plan Graduation Requirements**

- Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.
- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Successful completion of the capstone course.
  - The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
  - A master's thesis, which carries six credits, is required for the Oral Biology M.S. It must conform to the guidelines set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual. The M.A. thesis should be an original contribution to academic knowledge. Thesis projects must be designed, developed, and written in close consultation with an appropriate thesis advisor and with the student's thesis committee.
  - The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

## **School of Dental Medicine Courses**

**ORTH 8001 - Introduction to Orthodontics**  
**Credits 4**

**ORTH 8011 – Cephalometrics**  
**Credits 2**



To discuss the history, development and the use of cephalometrics in clinical orthodontic practice. This course will cover the basic principles of Cephalometric analysis and describe developing as well as established skeletal Class I, II & III discrepancies.

**ORTH 8102 - Clinical Specialty Seminars I**

**Credits 2**

**ORTH 8103 - Clinical Specialty Seminars II**

**Credits 3**

A continuation and progressing advanced level of the one-hour clinical seminars that will proceed all clinical sessions. The purpose of these seminars is for the faculty to preview the daily clinic schedule and prepare the residents for the procedures to be performed during that clinic session.

**ORTH 8104 - Clinical Specialty Seminars III**

**Credits 3**

**ORTH 8201 - Introduction to Clinic Orthodontics**

**Credits 4**

An introduction and overview of the three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients, under the supervision of the attending orthodontic clinical faculty. Clinical attire, policies, procedures and professionalism will be discussed.

**ORTH 8202 - Clinic Orthodontics**

**Credits 6**

**ORTH 8203 - Clinic Orthodontics**

**Credits 6**

A continuation and progressing advanced level of the three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients under the supervision of the attending orthodontic clinical faculty.

**ORTH 8204 - Clinic Orthodontics**

**Credits 6**

**ORTH 8205 - Clinic Orthodontics**

**Credits 6**

A continuation and progressively-advanced level of three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients under the supervision of the attending orthodontic clinical faculty.

**ORTH 8206 - Clinic Orthodontics**

**Credits 12**

A continuation and progressively-advanced level of three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients, under the supervision of the attending orthodontic clinical faculty.

**ORTH 8207 - Clinic Orthodontics**

**Credits 6**

This course provides Orthodontics Residents a more advanced level of material regarding orthodontic diagnosis, treatment planning and treatment. Residents build on their previous knowledge and experience. Residents are taught various finishing techniques and how to choose the proper retention per individual cases. Actual progress is compared to pretreatment projections. If progress is not on schedule, causes and solutions are discussed and changes are implemented as needed. Residents must prepare ABO written presentations for their 6 finished cases.

**ORTH 8314 - Advanced Research**

**Credits 1**

## ADVANCED RESEARCH

### **ORTH 8512 - Biomechanical Principles**

#### **Credits 2**

The biomechanics course aims to teach the first year orthodontic residents basic principles of tooth movement. It will include definitions of force vectors, force application and various biological responses based on mechanical principles.

### **ORTH 8513 - Growth and Developmentes**

#### **Credits 2**

GROWTH AND DEVELOPMENTES

### **ORTH 8518 - Orthodontic Materials**

#### **Credits 2**

This course is comprised of seminar discussions of materials used in the practice of orthodontics. Students will demonstrate an understanding of: the characterization of contemporary materials, methods of testing, clinical use, and health and safety concerns with the use of common materials. This course will also provide the foundation for developing a research project involving orthodontic materials.

### **ORTH 8602 - Diagnosis, Treatment Planning and Case Presentation**

#### **Credits 4**

A comprehensive in depth study of orthodontic diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

### **ORTH 8603 - Diagnosis & Treatment Plan**

#### **Credits 4**

### **ORTH 8604 - Diagnosis & Treatment Plan**

#### **Credits 4**

### **ORTH 8605 - Diagnosis, Treatment Planning and Case Presentation**

#### **Credits 4**

A comprehensive in depth study of orthodontic diagnosis, treatment planning and American Board of Orthodontics (ABO) case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty, followed by a comprehensive discussion of every case.

### **ORTH 8606 - Diagnosis, Treatment Plan and Case Presentation**

#### **Credits 8**

DIAGNOSIS, TREATMENT PLAN AND CASE PRESENTATION

### **ORTH 8607 - Diagnosis & Treatment Plan**

#### **Credits 2**

A comprehensive in depth study, diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty

### **ORTH 8803 - Literature Review/Journal Club**

#### **Credits 2**

Introduction to analyzing and understanding literature in orthodontics, including classification of study designs, hypothesis testing, scientific writing, analysis and interpretation of data, and critical evaluation of the literature. Residents participate in critical review of research in orthodontics and craniofacial biology throughout their education and in preparation for the ABO examination.

### **ORTH 8804 - Literature Review/Journal Club**

**Credits 2**

**ORTH 8805 - Literature Review/Journal Club**

**Credits 2**

Literature Review/Journal Club

**ORTH 8808 - Literature Review IV**

**Credits 1**

A continuation and progressively-advanced level of analyzing and understanding literature in orthodontics including, classification of study design, hypothesis testing, scientific writing, analysis and interpretation of data, and critical evaluation of the literature.

**ORTH 8910 - Craniofacial Anomalies**

**Credits 2**

Introduce diagnostic and treatment planning principles of interdisciplinary team approach, as well as, provide a sound basis for clinical examination, diagnosis and team management of patients with severe malocclusion associated with birth defects and craniofacial anomalies.

**PGDE 8312 - Independent Research I**

**Credits 3**

**PGDE 8313 - Independent Research II**

**Credits 3**

**PGDE 8315 - Independent Research III**

**Credits 3**

**PGDE 8316 - Independent Research**

At the conclusion of this course, the Orthodontic Resident will be able to: 1) Understand the scientific method as it applies to critical review of the literature and research design; 2) Understand literature search techniques and strategies as well as the different levels of research publications ranging from opinions, case reports, blinded studies, prospective research, randomized controlled clinical studies to systematic reviews; 3) Complete an independent research project to include an abstract, proposal, data collection, analysis and write up for submission to an appropriate peer-reviewed scientific journal; 4) Complete Master's Thesis.

**PGDE 8402 - Biomedical Sciences Core I**

**Credits 4**

**PGDE 8403 - Biomedical Sciences Core II**

**Credits 4**

**PGDE 8415 - Advanced Biomedical Sciences**

**Credits 2**

**PGDE 8503 - Interdisciplinary Diagnosis and Treatment Planning**

**Credits 2**

**PGDE 8516 - Adv Clin Sci: Radiology**

**Credits 4**

**PGDE 8517 – TMD**

**Credits 2**

This course reviews appropriate literature of stomatognathic function, diagnosis and treatment of TM Disorders. The student will review the multi-factorial theory of TM Disorders and will distinguish simple TM Disorders vs. complex TM Disorders. A plan for management of TM disorders within their clinical discipline will be developed.

**PGDE 8701 - PSC: Lit Review**  
**Credits 2**

**PGDE 8702 - Res Design**  
**Credits 2**

**PGDE 8703 - Research Methods II**  
**Credits 2**

**PGDE 8715 - PSC: Practice Management**  
**Credits 2**

**PGDE 8901 – Thesis**  
**Credits 6**

This course guides students through the process of writing their proposal and thesis, following the guidelines/practices for oral biology/orthodontics.

## 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 two tracks, the Family 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. 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. The master's program has full accreditation by the Commission on Collegiate Nursing Education (CCNE). 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.

We also offer an on line Ph.D. in Nursing 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.

The School of Nursing also offers a Doctorate of Nursing Practice (DNP) in collaboration with the University of Nevada, Reno (UNR). The UNDNP post-master's program is on-line and offers courses from UNLV as well as UNR. The DNP degree is a terminal professional practice degree and prepares graduates for advanced clinical practice and leadership roles to serve the health care needs of the people of Nevada, the nation, and the professional community. The collaborative UNDNP program is accredited by the Commission on Collegiate Nursing Education (CCNE).

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, Ph.D., RN, CNE, Dean*

*Jillian Inouye, Ph.D., RN, Associate Dean for Research*

*Tish Smyer, DNSc, RN, CNE, Associate Dean for Academics*

*Dean*

**Yucha, Carolyn** - Full Graduate Faculty

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

*Associate Dean for Academic Affairs*

**Smyer, Tish** - *Full Graduate Faculty*

Professor; BS, University of Arkansas Medical Center; MS University of California Los Angeles; DNSc University of California Los Angeles. *Rebel since 2006.*

*Associate Dean for Research*

**Inouye, Jillian** - *Full Graduate Faculty*

Professor; BS, University of Hawaii; MS, University of California; MA, University of Hawaii; PhD, University of Hawaii. *Rebel since 2013.*

*Psychosocial Nursing Department Chair*

**Clark, Michele** - *Full Graduate Faculty*

Associate Professor; B.S. University of California, San Francisco; M.S., Ph.D. University of Arizona. *Rebel since 2006.*

*Physiological Nursing Department Chair*

**Alpert, Patricia** - *Full Graduate Faculty*

Associate Professor; B.S., M.S., M.P.H. University of Hawaii; D.P.H. Loma Linda University. *Rebel since 1991.*

*MSN Coordinator*

**Giddings, Michelle** - *Full Graduate Faculty*

Assistant Professor; BSN, State University of New York; MSN, University of Nevada, Las Vegas; DNP, University of South Alabama. *Rebel since 2011.*

*Ph.D. Coordinator*

**Clark, Michele** - *Full Graduate Faculty*

Associate Professor; B.S. University of California, San Francisco; M.S., Ph.D. University of Arizona. *Rebel since 2006.*

*DNP Coordinator*

**Sabo, Carolyn** - *Full Graduate Faculty*

Professor; BS, MS University of Utah; Ed.D. Brigham Young University. *Rebel since 1984.*

*Graduate Faculty*

**Angosta, Alona**

B.S.N, M.S.N. University of Nevada, Las Vegas; Ph.D. University of Hawaii. *Rebel since 2005.*

**Candela, Lori** - *Full Graduate Faculty*

Associate Professor; BS Metropolitan State College; MS, University of Colorado; Ed.D. University of Southern California. *Rebel since 1999.*

**Cyrkiel, Dianne** - *Associate Graduate Faculty*

Lecturer; BSN, Indiana University; MSN, University of Texas. *Rebel since 2000.*

**Doolen, Jessica** - *Full Graduate Faculty*

Assistant Professor; BS, University of Nevada, Las Vegas; MS, University of Nevada, Las Vegas; PhD, University of Northern Colorado. *Rebel since 1994.*

**Feng, Du** - *Full Graduate Faculty*

Professor; BS, Peking University; MS, University of Southern California; PhD, University of Southern California. *Rebel since 2013.*

**Gatlin, Tricia** - *Full Graduate Faculty*

Assistant Professor; B.S.N., University of Memphis; M.S., University of Portland; PhD, University of Arizona. *Rebel since 2011.*

**Gulliver, Kevin** - *Associate Graduate Faculty*

Lecturer; BSN, MSN, University of Nevada, Las Vegas. *Rebel since 2003.*

**Kawi, Jennifer** - *Full Graduate Faculty*

B.S.N., Saint Louis University; M.S.N., University of Nevada, Las Vegas; Ph.D. University of Colorado, Denver. *Rebel since 2007.*

**Leonard, Bruce** - *Full Graduate Faculty*

Associate Professor; BSN, Oregon Health Sciences University; MSN, Seattle University; PhD, University of Texas. *Rebel since 2013.*

**Maes, Cheryl** - *Associate Graduate Faculty*

Lecturer; BS, MS University of Nevada, Las Vegas. *Rebel since 2004.*

**Menzel, Nancy** - *Full Graduate Faculty*

Associate Professor; BS Cornell University; MS Boston University; Ph.D. University of South Florida. *Rebel since 2006.*

**St. Pierre Schneider, Barbara** - *Full Graduate Faculty*

Associate Professor; BSN, LSUMC; MS, University of Washington; DNSc, UCLA. *Rebel since 2006.*

**Tan, Rhigel** - *Full Graduate Faculty*

Assistant Professor; B.S.N., Cebu City Medical Center College of Nursing; MN, Cebu Normal University; D.N.P. Rocky Mountain University of Health Professions. *Rebel since 2005.*

**Thomason, Diane** - *Full Graduate Faculty*

Assistant Professor; BSN, University of Washington; MSN, University of Washington; PhD, University of Washington. *Rebel since 2013.*

**VanBeuge, Susan** - *Full Graduate Faculty*

Assistant Professor; BS Pacific Lutheran University; MS University of Nevada Las Vegas; D.N.P. University of Utah. *Rebel since 2006.*

## **School of Nursing Plan**

### **Advanced Graduate Certificate in Family Nurse Practitioner**

#### **Plan Description**

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.

### **Learning Outcomes**

[www.unlv.edu/degree/post-ms-family-nurse-practitioner](http://www.unlv.edu/degree/post-ms-family-nurse-practitioner)

### **Plan Admission Requirements**

- Students must apply and submit all admission materials via the ApplyYourself system available through the Graduate College. The following items are required:
- Transcripts of all course work for both baccalaureate and masters degrees must be sent to the School of Nursing and Graduate College. Additionally, if unofficial transcripts are available to the student, please upload to the Apply Yourself application. 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.
- Two letters of recommendation from either instructors or employers that speak to the applicant's potential to complete the Post-Master's FNP Certificate Program.
- Statement of 300 words describing the students' professional goals and reason for seeking a nurse practitioner certificate.
- Current resume or vita.
- Current valid RN license in state of residence.
- If admitted, submit a photo of self and current evidence of the following to the School of Nursing:
  - Health insurance.
  - Nurse practitioner student malpractice insurance.
  - Immunization record of vaccinations against Hepatitis B, Varicella, MMR, Tetanus Diphtheria or Tetanus Diphtheria Pertussis booster (TD/Tdap) and a 2 step TB screen.
  - CPR certification.
  - Health and physical clearance completed by a licensed healthcare provider.
  - A drug screen and background check (completed after admission to the program).
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

Total Credits Required: 36

### **Course Requirements**

- Required Courses – Credits: 36
  - NURS 703 - Advanced Physical Assessment
  - NURS 704 - Pathophysiology for Advanced Nursing Practice
  - NURS 714 - Family Theory and Assessment in Primary Care:
  - NURS 730 - Pharmacology in Primary Care
  - NURS 749 - Primary Care of the Family I
  - NURS 752 - Role of the Nurse Practitioner
  - NURS 759 - Primary Care of the Family II



- NURS 769 - Primary Care of the Family III

### **Certificate Requirements**

- Completion of a minimum of 36 credit hours with a minimum GPA of 3.00.

### **Plan Certificate Completion Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

## **Advanced Graduate Certificate in Pediatric Nurse Practitioner (On Hold)**

### **Plan Description**

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.

This pediatric nurse practitioner (PNP) post-master's certificate program will allow those who already hold a master's degree in nursing to return to UNLV to obtain specialization as a pediatric nurse practitioner.

### **Plan Admission Requirements**

- Completed online Graduate College application.
- Two copies of official transcripts of all course work taken for both baccalaureate and master's degrees sent directly from the granting institutions to the School of Nursing (SON) and to the Graduate College.
- Upload into the online application:
  - Two letters of recommendation.
  - 300 word statement of goals and reasons for seeking a PNP post-master's certificate.
  - Current resume or vitae.
  - Current valid Nevada RN license or eligibility to obtain a Nevada RN license.
  - Health and malpractice insurance, Hepatitis B vaccination, negative drug screen, background check & a current BLS certificate.
- Students are expected to have basic computer skills, including word processing.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

Total Credits Required: 35

### **Course Requirements**

- Required Courses – Credits: 35
  - NURS 704 - Pathophysiology for Advanced Nursing Practice
  - 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
- NURS 752 - Role of the Nurse Practitioner
- NURS 764 - Primary Care in Pediatrics: Chronic Conditions

### **Certificate Requirements**

Completion of a minimum of 35 credit hours with a minimum GPA of 3.00.

### **Plan Certificate Completion Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

## **Master of Science - Nursing**

### **Plan Description**

The M.S.N. program currently offers two tracks: the Family Nurse Practitioner (NP) Track and the Nurse Educator (NE) 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 track offers courses 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 and part time 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:
- Evaluate the principles, personal values, and beliefs that influence ethical decision making, which provides a framework for nursing practice.
- Communicate effectively as a health care professional, creating collaborative interdependent relationships and act as advocates for the nursing profession and client population.
- Incorporate nursing theory and evidence based practice in advanced nursing roles.
- Understand the influences of human diversity and social issues in providing culturally sensitive health promotion and disease prevention strategies in a global society.
- 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*

- Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.
- Articulate the professional role, which includes the ethical code of conduct and scope of advanced practice.
- Develop and monitor comprehensive, holistic plans of care that address the health promotion and disease prevention needs of diverse client populations.
- 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*

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

### **Learning Outcomes: Family Nurse Practitioner**

[www.unlv.edu/degree/ms-nursing-family-nurse-practitioner](http://www.unlv.edu/degree/ms-nursing-family-nurse-practitioner)

### **Learning Outcomes: Nurse Educator**

[www.unlv.edu/degree/post-ms-nurse-educator](http://www.unlv.edu/degree/post-ms-nurse-educator)

### **Plan 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.
- 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.
- 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.
- Completion of a graduate level statistics course with a grade of “B” or better within five years prior to matriculation into the MSN program. (Example EPY 721 or KIN 751.)
- 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.
- A current resumé or curriculum vita.
- Current valid RN license in state of residence. Students should submit a copy of their Nursing License with the word “copy” printed over the top.
- Accepted applicants must, prior to enrollment, show evidence of current health and malpractice insurance, proof of completion of the Hepatitis B Vaccine series, or a titer indicating presumptive immunity, proof of

varicella or 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 and background check. Other immunization and health data requirements are identified in the student handbook.

- A statement of approximately 300 words describing the student's professional goals and reason for seeking graduate education.
- Students seeking admission to the FNP track must submit a resume or vita that demonstrates a minimum of one year clinical experience as a registered nurse.
- 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 (NURS 733 ).
- 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.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

See Subplan Requirements below.

### **Subplan 1 Requirements: Family Nurse Practitioner Track**

Total Credits Required: 48-52

### **Course Requirements**

- Required Courses – Credits: 46
  - 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
- Culminating Experience
  - Complete one of the following culminating experiences:
    - Capstone Project – Credits: 2
      - NURS 766 - Capstone Seminar I
      - NURS 796 - Capstone Seminar II
    - Thesis – Credits: 6
      - NURS 799 - Thesis

### **Degree Requirements**

- 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 UNLV Graduate College.
- If a student fails two courses or has withdrawn from two courses or received a grade less than B in two courses he/she is ineligible for readmission unless approved by the Graduate College.
- Complete a minimum of six semester hours in each calendar year.
- Continuously register for a minimum of three (3) semester hours of credit each semester while working on the thesis or capstone project.
- In order to maintain clinical competency the FNP student must continuously register for at least three (3) semester hours of NURS 773 (clinical practicum) each semester while working on the thesis or capstone project if all required clinical courses are complete.
- Residency Credits: No more than three courses (maximum 7 credits) may be transferred into the program. The MSN Coordinator and the Graduate College must approve transfer credit.
- Credit by Challenge Examination: 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.
- Graduation Requirements: Students have a choice of the catalog under which they wish to graduate. They may choose between: 1) the year of official matriculation, or 2) the year of graduation. Students are encouraged to meet the requirements of the current catalog.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Comprehensive Examination: Students in all tracks will be formally evaluated by an Examination Committee for their thesis or capstone project. (More detailed information is provided in the MSN Handbook.)
- Complete a thesis or capstone project.
- If completing a thesis:
  - The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
  - The student must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 2 Requirements: Nursing Education Track**

Total Credits Required: 39

### **Course Requirements**

- Required Courses – Credits: 33
  - 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

- NURS 723 - Specialty Focus for Nurse Educators
  - NURS 733 - Nursing Practicum I
  - NURS 713 - Health and Public Policy
  - NURS 743 - Nursing Education Practicum 2
- Elective Courses – Credits: 3
  - Three credits of approved graduate electives must be taken by students selecting the professional paper option.
- Culminating Experience – Credits: 3-6
  - Complete one of the following culminating experiences:
    - Thesis – Credits: 6
      - NURS 799 - Thesis
    - Research Utilization Project – Credits: 6
      - NURS 795 - Research Utilization Project
    - Professional Paper – Credits: 3
      - NURS 793 - Nursing Education Professional Paper

## **Degree Requirements**

- 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 UNLV Graduate College.
- If a student fails two courses or has withdrawn from two courses or received a grade less than B in two courses he/she is ineligible for readmission unless approved by the Graduate College.
- Complete a minimum of six semester hours in each calendar year.
- Continuously register for a minimum of three (3) semester hours of credit each semester while working on the thesis, professional paper, or research utilization project.
- In order to maintain clinical competency the FNP student must continuously register for at least three (3) semester hours of NURS 773 (clinical practicum) each semester while working on the thesis or capstone project if all required clinical courses are complete
- Residency Credits: No more than three courses (maximum 7 credits) may be transferred into the program. The MSN Coordinator and the Graduate College must approve transfer credit.
- Credit by Challenge Examination: 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.
- Graduation Requirements: Students have a choice of the catalog under which they wish to graduate. They may choose between: 1) the year of official matriculation, or 2) the year of graduation. Students are encouraged to meet the requirements of the current catalog.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Comprehensive Examination: Students in all tracks will be formally evaluated by an Examination Committee for their thesis, research utilization project, or professional paper. (More detailed information is provided in the MSN Handbook.)
- Complete a thesis, research utilization project, or professional paper.
- If completing a thesis:

- The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
- The student must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Doctor of Nursing Practice**

### **Plan Description**

The Doctor of Nursing Practice (DNP) is a terminal professional practice degree. The goal of the collaborative University of Nevada at Reno and Las Vegas, DNP program is to prepare nurses to assume leadership roles in clinical practice, administration, clinical teaching, and clinical research. The DNP differs from the PhD in Nursing or Doctor of Nursing Science degrees, emphasizing advanced clinical practice, implementation of best practices, and evaluation of practice and care delivery models rather than individually initiated research. The DNP program prepares graduates for advanced clinical practice and leadership roles to serve the health care needs of the people of Nevada, the nation, and the professional community. DNP graduates are equipped to assume a wide range of leadership roles in both direct and indirect health care settings. DNP graduates may function as specialists in their advanced practice clinical roles, nursing faculty, or as healthcare executives, program and policy analysts.

#### *DNP Program Objectives:*

- The goal of the DNP degree is to prepare nurses to assume leadership roles in clinical practice, clinical teaching, and health care analysis. At the conclusion of the University of Nevada DNP program, graduates will:
- Provide advanced nursing care to improve patient and population health care outcomes in various direct and indirect settings.
- Take leadership roles in the analysis, delivery and management of nursing care and health care systems.
- Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research.
- Collaborate with interprofessional teams to meet the healthcare needs of culturally and ethnically diverse individuals and populations.
- Act as change agent, leader, and advocate in the design, implementation, and evaluation of health care policy as it affects populations and the nursing profession.

### **Learning Outcomes**

[www.unlv.edu/degree/dnp](http://www.unlv.edu/degree/dnp)

### **Plan Admission Requirements**

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements .

#### *Advanced Practice Track:*

- Hold a baccalaureate in nursing from an accredited NLNAC or CCNE nursing program.
- Hold a master's degree in nursing (MSN or MN). Exceptions to this will be made on a case-by-case basis and only for those students who hold a Bachelor of Science in Nursing with a master's degree in another health-related field (e.g., MPH, MHA, etc.). Coursework from non-nursing master's degree must have significant content from nursing or a nursing focus. At a minimum, graduate level coursework must demonstrate a substantial study of Nursing Theory, Research, and Health Policy.

- Have completed graduate-level course work with a grade of B or better in advanced pathophysiology, pharmacology, physical assessment, nursing theory, research, and healthcare policy.
- Have a cumulative grade point average (GPA) of 3.5 or higher at the graduate level.
- Have completed graduate-level course work with a grade of B or better in nursing theory, research and healthcare policy.
- Hold an unencumbered license as a registered nurse and as an advanced practice nurse commensurate with state licensure.
- Hold national certification in an advanced practice role from a nationally recognized certification/credentialing organization.

*Nurse Executive Track:*

- Hold a baccalaureate in nursing from an accredited NLNAC or CCNE nursing program.
- Students must hold a master's degree in nursing (MSN or MN). Exceptions to this will be made on a case-by-case basis and only for those students who hold a Bachelor of Science in Nursing with a master's degree in another health-related field (i.e. MBA, MHA, MPH etc.). Coursework from non-nursing master's degree must have significant content from nursing or a nursing focus. At a minimum, graduate level coursework must demonstrate a substantial study of Nursing Theory, Research, and Health Policy.
- Have a cumulative grade point average (GPA) of 3.5 or higher at the graduate level.
- Have completed graduate-level course work with a grade of B or better in nursing theory, research and healthcare policy.
- Hold an unencumbered license as a registered nurse.
- Hold national certification or eligibility for certification reflective of advanced practice in a leadership role from a nationally recognized certification/credentialing organization.
- Provide documentation of at least 500 hours of practice in a leadership role from educational experience, practice experience or equivalent course work in the area of administration, e.g., MBA, MHA, MPH, etc.

**Plan Requirements**

See Subplan Requirements below.

**Subplan 1 Requirements: Advanced Practice Track**

Total Credits Required: 39

**Course Requirements**

- Required Courses – Credits: 33
  - NURS 719R - Health & Public Policy for Advanced Practice of Nursing
  - NURS 725 - Scientific Underpinnings of the DNP in Advanced Practice Nursing
  - NURS 728R - Analysis of Health Organizations
  - NURS 729R - Translational Evidence for Healthcare Systems
  - NURS 732 - Economics of Healthcare Delivery
  - NURS 745 - Healthcare Information Systems & Technology
  - NURS 765 - DNP Residency
  - NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
  - NURS 768 - DNP Forum & Role Transformation
  - NURS 772 - The Nurse as Leader
  - NURS 778 - Geographic Information Systems for Health
  - NURS 792 - Outcomes Management & Performance Improvement in Nursing
- DNP Project – Credits: 6



- NURS 786 - DNP Project: Planning
- NURS 787 - DNP Project: Implementing
- NURS 788 - DNP Project: Defense

## **Degree Requirements**

- Complete 39 credits with a minimum GPA of 3.00.
- 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- (2.7) 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 Graduate College.
- If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.
- Complete a minimum of six (6) semester hours in each calendar year.
- Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, and the DNP Coordinator, the appropriate academic dean, and the Graduate Dean.
- The Advisor monitors the student’s progress through the program of study. In addition, the DNP Coordinator will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current full graduate faculty status at UNLV, which can be checked at:  
<http://graduatecollege.unlv.edu/facstaff/status.html>.
- Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the DNP coordinator when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.
- In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
- Continuously register for three (3) semester hours of credit each semester while working on a DNP Project.
- Students are enrolled in the UNDP program as a ‘cohort’. The program is a 5-semester prescribed program and students are expected to matriculate along with the cohort starting from the 1st semester until completion. In instances where students are not with their cohort for extenuating circumstances, they will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.
- The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP essentials. This is a project completed over semesters 2, 4 and 5 in the program. Students must complete each semester of the DNP Project to progress in the program. Each student will create, present and defend a DNP Project proposal in the 2nd semester. This must be successfully completed in the semester to progress. Students will complete a project, write a final paper and defend the project in the 5th semester with full committee approval obtained for graduation from the UNDP program according to the individual ‘home’ school Graduate College (UNLV and UNR) requirements.
- Progression in the DNP Project experience from each course must be completed in order. For students who do not progress in the stated progression, the DNP Project Progression Policy will be followed. Please refer to the UNLV DNP Online Program page, the DNP Project Handbook, or the UNLV DNP Coordinator for a copy of the policy.

- Students in the DNP program are required to abide by the policies for UNLV School of Nursing and UNR Orvis School of Nursing. Students in the DNP program are also required to abide by the policies of the UNLV Graduate College and University as well as the UNR Orvis School of Nursing and UNR Graduate College.

## **Graduation Requirements**

See Plan Graduation Requirements below.

## **Subplan 2 Requirements: Nurse Educator Track**

Total Credits Required: 39

## **Course Requirements**

- Required Courses – Credits: 33
  - NURS 719R - Health & Public Policy for Advanced Practice of Nursing
  - NURS 725 - Scientific Underpinnings of the DNP in Advanced Practice Nursing
  - NURS 728R - Analysis of Health Organizations
  - NURS 729R - Translational Evidence for Healthcare Systems
  - NURS 732 - Economics of Healthcare Delivery
  - NURS 745 - Healthcare Information Systems & Technology
  - NURS 763 - Management Strategies for Nursing & Healthcare Systems
  - NURS 765 - DNP Residency
  - NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
  - NURS 768 - DNP Forum & Role Transformation
  - NURS 772 - The Nurse as Leader
  - NURS 792 - Outcomes Management & Performance Improvement in Nursing
- DNP Project – Credits: 6
  - NURS 786 - DNP Project: Planning
  - NURS 787 - DNP Project: Implementing
  - NURS 788 - DNP Project: Defense

## **Degree Requirements**

- Complete 39 credits with a minimum GPA of 3.00.
- 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- (2.7) 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 Graduate College.
- If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.
- Complete a minimum of six (6) semester hours in each calendar year.
- Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree

program requires the approvals of the student, advisor, and the DNP Coordinator, the appropriate academic dean, and the Graduate Dean.

- The Advisor monitors the student's progress through the program of study. In addition, the DNP Coordinator will monitor the student's progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student's responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student's responsibility to make sure that his or her chosen advisor or chair has current full graduate faculty status at UNLV, which can be checked at: <http://graduatecollege.unlv.edu/facstaff/status.html>.
- Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the DNP coordinator when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.
- In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
- Continuously register for three (3) semester hours of credit each semester while working on a DNP Project.
- Students are enrolled in the UNDP program as a 'cohort'. The program is a 5-semester prescribed program and students are expected to matriculate along with the cohort starting from the 1st semester until completion. In instances where students are not with their cohort for extenuating circumstances, they will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.
- The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP essentials. This is a project completed over semesters 2, 4 and 5 in the program. Students must complete each semester of the DNP Project to progress in the program. Each student will create, present and defend a DNP Project proposal in the 2nd semester. This must be successfully completed in the semester to progress. Students will complete a project, write a final paper and defend the project in the 5th semester with full committee approval obtained for graduation from the UNDP program according to the individual 'home' school Graduate College (UNLV and UNR) requirements.
- Progression in the DNP Project experience from each course must be completed in order. For students who do not progress in the stated progression, the DNP Project Progression Policy will be followed. Please refer to the UNLV DNP Online Program page, the DNP Project Handbook or the UNLV DNP Coordinator for a copy of the policy.
- Students in the DNP program are required to abide by the policies for UNLV School of Nursing and UNR Orvis School of Nursing. Students in the DNP program are also required to abide by the policies of the UNLV Graduate College and University as well as the UNR Orvis School of Nursing and UNR Graduate College.

## **Graduation Requirements**

See Plan Graduation Requirements below.

## **Plan Graduation Requirements**

- Submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her DNP Project by the posted deadline. The defense must be advertised and is open to the public.
- Student must submit his/her approved, properly formatted hard-copy project to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Doctor of Philosophy - Nursing**

### **Plan Description**

Individuals who complete the Ph.D. 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 a scientific and practice discipline through the conduct of culturally competent scholarship and identification of implications for policy, the discipline, and the profession.

Conduct and communicate original research that generates new knowledge.

Develop, implement and evaluate innovative approaches to teaching and learning.

### *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 the first semester of enrollment. 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. Students are also required to be on campus for their oral comprehensive exams, proposal defense, and final dissertation defense.

### *Programs of Study*

There are three options in the current Ph.D. in Nursing Program: Nursing Education Track, Sustainable Health Track, and the Post-D.N.P. to Ph.D. Track. The UNLV School of Nursing (SON) Ph.D. in Nursing Curriculum Framework outlines the shared required core courses in the Ph.D. Nursing Program.

### **Learning Outcomes: Nursing Education**

[www.unlv.edu/degree/phd-nursing-education](http://www.unlv.edu/degree/phd-nursing-education)

### **Learning Outcomes: Post D.N.P to Ph.D.**

[www.unlv.edu/degree/phd-nursing-post-dnp](http://www.unlv.edu/degree/phd-nursing-post-dnp)

### **Learning Outcomes: Sustainable Health**

[www.unlv.edu/degree/doctor-philosophy-nursing-sustainable-health](http://www.unlv.edu/degree/doctor-philosophy-nursing-sustainable-health)

### **Plan Admission Requirements**

- Admission into the nursing doctoral program is contingent upon the qualifications of the applicant and the availability of open positions. Students are admitted once a year in the fall. Applicants must have submitted all required materials by the deadline posted on the School of Nursing website.
- For the Post-D.N.P. to Ph.D. Track an earned Doctorate in Nursing Practice degree from a program accredited by the National League for Nursing Accrediting Commission or the Commission on Collegiate Nursing Education is required. In addition to the required courses below, students must have 17 units from an accredited DNP program.
- Earned master's degrees in nursing (MSN) 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.

- 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 the following courses, or their equivalents, from the MSN program prior to taking doctoral courses:
  - NURS 705 or NURS 755
  - NURS 706
  - NURS 707
  - NURS 713
- A minimal grade point average of 3.5 (4.0 = A) earned in a nursing or health-related master's program of study.
- Successful completion of graduate course work in statistics and research with a B or better prior to admission.
- Licensed as a Registered Nurse in at least one state or territory of the US.
- Applicants must present GRE scores on verbal, quantitative and analytic measures. The exam must have been taken within the last five years.
- 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.
- 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.
- Applicants must submit the following written materials for review:
  - Two representative samples of scholarly work (e.g., thesis, demonstration project, publications, etc.).
  - 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.
  - Curriculum Vita or resume.
- Applicants are required to participate in an interview with members of the Admissions Committee, either in person or by telephone.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

## **Plan Requirements**

See Subplan Requirements below

## **Subplan 1 Requirements: Nursing Education Track**

Total Credits Required: 62

## **Course Requirements**

- Core Courses – Credits: 32
  - 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 - Quantitative Methods in Nursing

- NURS 781 - Qualitative Research Methods in Nursing
- NURS 785 - Special Topics in Nursing Research
- NURS 789 - Independent Study
- Nursing Education Courses – Credits: 18
  - 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
- Dissertation – Credits: 12
  - NURS 797 - Dissertation

## **Degree Requirements**

See Plan Degree Requirements below.

## **Graduation Requirements**

See Plan Graduation Requirements below.

## **Subplan 2 Requirements: Sustainable Health Track**

Total Credits Required: 62

## **Course Requirements**

- Core Courses – Credits: 32
  - 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 - Quantitative Methods in Nursing
  - NURS 781 - Qualitative Research Methods in Nursing
  - NURS 785 - Special Topics in Nursing Research
  - NURS 789 - Independent Study
- Sustainable Health Courses – Credits: 18
  - NURS 778 - Geographic Information Systems for Health
  - NURS 782 - Sustainable Health: Clinical Perspectives
  - NURS 783 - Economics of Sustaining Health
  - NURS 784 - Sustainable Health and Public Policy
  - NURS 777 - Individualized Study/Dissertation Seminar
- Dissertation – Credits: 12
  - NURS 797 - Dissertation

## **Degree Requirements**

See Plan Degree Requirements below.

## **Graduation Requirements**

See Plan Graduation Requirements below.

### **Subplan 3 Requirements: Post-D.N.P. to Ph.D. Track**

Total Credits Required: 45

#### **Course Requirements**

- Core Courses – Credits: 33
  - NURS 770 - Knowledge Development in Nursing
  - NURS 771 - Theory Development in Nursing
  - 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 - Quantitative Methods in Nursing
  - NURS 781 - Qualitative Research Methods in Nursing
  - NURS 785 - Special Topics in Nursing Research
  - NURS 789 - Independent Study
- Dissertation – Credits: 12
  - NURS 797 - Dissertation

#### **Degree Requirements**

See Plan Degree Requirements below.

## **Graduation Requirements**

See Plan Graduation Requirements below.

#### **Plan Degree Requirements**

- Complete the minimum credits required.
- Upon approval of the Graduate Coordinator, students in the Nursing Education Track who completed NURS 709, 710, 724, and 733 or equivalent course work during either their masters' or postmasters' education are required to complete a minimum of 50 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.
- Upon admission, each student will be assigned to the Ph.D. coordinator as their initial academic advisor who will plan the student's entire program of study. Approved courses will include those taught in other disciplines but must relate to the student's area of research.
- After the student has selected a research topic, the student will select an 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.
- In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
- 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 successful completion of the comprehensive exam, the student achieves candidacy and may register for dissertation credits and begin dissertation proposal development followed by independent dissertation study.

- Students who do not successfully complete the exam will be placed on academic probation.
- Failure to successfully complete the exam or meet the requirements of academic probation will result in separation.
- Upon successfully completing the comprehensive examination and proposal defense, the student submits a dissertation prospectus to his/her committee for approval. After approval, the student submits a "Prospectus Approval Form" to the Graduate College. The student's major advisor and dissertation committee are responsible for the student's progression through the dissertation.
- 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.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
- Student must submit his/her approved, properly formatted hard-copy dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **School of Nursing Courses**

### **NURS 501 - Critical Care Nursing**

#### **Credits 6**

This course provides RNs a beginning understanding of Critical Care Nursing and the knowledge required within this role. The student will be prepared to work in critical care settings, including ICU, CCU, Recovery Room or the Emergency Room. The course is composed of online didactic content, laboratory skills practice, simulation experience and clinical internship.

### **NURS 622 - AIDS: An Interdisciplinary Perspective**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

### **NURS 654 - Introduction to Forensic Nursing**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

### **NURS 675 - Nursing Systems Management**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

### **NURS 676 - Introduction to Nursing Case Management**

This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

### **NURS 677 - Nursing Case Management Systems**

This course has 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 pathophysiologic 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 719R - Health & Public Policy for Advanced Practice of Nursing****Credits 3**

Prepares nursing leaders to analyze and influence health policy. Defines problems, critiques potential solutions, assesses political influences, designs interventions for policy-making, and evaluates outcomes. **Prerequisites:** Completion of the first 2 terms in the DNP program or permission of instructor.

**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. **Notes:** (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 725 - Scientific Underpinnings of the DNP in Advanced Practice Nursing****Credits 2**

Articulates and supports a role for the nursing doctorate to prepare nurse leaders within the discipline of nursing.

**Prerequisites:** Admission to the DNP Program.

**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, NURS 707, and NURS 713

**NURS 728R - Analysis of Health Organizations****Credits 2**

An introduction to the analysis of the health/human service organization as a particular type of complex organization. **Prerequisites:** Admission to the DNP Program or permission of instructor.

**NURS 729R - Translational Evidence for Healthcare Systems****Credits 3**

Critical analysis and synthesis of the literature and available data to determine and implement evidence-based science into healthcare practice. **Prerequisites:** Admission to the DNP Program.

**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. **Notes:** Three hours/week of precepted clinical/lab. **Prerequisites:** Graduate standing in PNP track.

### **NURS 732 - Economics of Healthcare Delivery**

#### **Credits 3**

Addresses basic concepts and techniques for financial management as it relates to clinical practice, clinical teaching, and research in healthcare programs and organizations. **Prerequisites:** Completion of the first term courses in the DNP program or permission of the instructor.

### **NURS 733 - Nursing Practicum I**

#### **Credits 3**

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. **Notes:** Twelve hours of precepted practicum per week.

**Prerequisites:** NURS 704 and NURS 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. **Notes:** (12 hours/week practicum). **Prerequisites:** NURS 703, NURS 704, NURS 720, and NURS 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. **Notes:** 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. **Notes:** Nine hours per week of precepted practicum. **Prerequisites:** NURS 731 and NURS 734.

### **NURS 745 - Healthcare Information Systems & Technology**

**Credits 3**

Leadership models for nurse educator, advanced practice, or management roles. Mentorship, service, knowledge dissemination and impact of diversity on ethical leadership practices are included. **Prerequisites:** Completion of the second term of the DNP Program or permission of the instructor.

**NURS 749 - Primary Care of the Family I****Credits 7**

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. **Notes:** (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. **Notes:** (15 hours of clinical per week). **Prerequisites:** Successful completion of NURS 749/ NURS 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. **Notes:** (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 763 - Management Strategies for Nursing & Healthcare Systems****Credits 3**

Analysis and application of human resource management, public relations, and marketing strategies for effective and efficient use of human talent to accomplish organizational goals. **Prerequisites:** Completion of term 3 of DNP Program.

**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. **Notes:** Nine hours of precepted clinical experience in primary care per week. **Prerequisites:** NURS 714, NURS 744.

**NURS 765 - DNP Residency****Credits 4**

Residency to apply program concepts and develop and implement strategies for practice-level and/or system-wide practice initiatives to improve the quality of care. **Prerequisites:** Completion of term 4 course work for DNP Program.

**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. **Prerequisites:** NURS 706 and NURS 707.

**NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader****Credits 2**

The utilization of collaboration, communication and negotiation for implementation of practice models, peer review, practice guidelines, health policy, standards of care, and other scholarly products. **Prerequisites:** NURS 786 DNP Project: Planning for Change.

**NURS 768 - DNP Forum & Role Transformation****Credits 2**

Examination of issues and challenges in the DNP role and skills and strategies to conceptualize, articulate, plan, and actualize a career as a nurse leader. **Prerequisites:** Completion of term 4 course work for DNP Program.

**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/NURS 749L and NURS 759/NURS 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. **Notes:** 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/NURS 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:** NURS 775 or equivalent; enrollment in the nursing doctoral program.

**NURS 777 - Individualized Study/Dissertation Seminar****Credits 1 - 5**

Individualized study or seminar to facilitate dissertation research. **Notes:** May be repeated to a maximum of five credits. **Prerequisites:** Admission into doctoral program or permission of instructor.

**NURS 778 - Geographic Information Systems for Health****Credits 3**

This course introduces the use of epidemiologic methods and modern geographic information systems to analyze the relationships between socioeconomic, physical, geopolitical, and demographic factors and sustainable health. These techniques form the basis of assessment of urban health problems to inform, plan, deliver, and evaluate appropriate interventions to ensure 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 - Quantitative Methods in Nursing****Credits 3**

Examines, quantitative and mixed-method approaches used in nursing research. **Prerequisites:** Admitted to nursing doctoral program.

**NURS 781 - Qualitative Research Methods in Nursing****Credits 3**

Examines qualitative approaches used in nursing research. **Prerequisites:** NURS 780, Enrollment in the Nursing Ph.D. Program.

**NURS 782 - Sustainable Health: Clinical Perspectives****Credits 4**

This course focuses on air quality, potable water, waste disposal, disasters, and other potentially health-threatening environmental problems that affect health in developing and developed countries. The impact of environmental practices on sustainable health will be examined. **Prerequisites:** NURS 778, admission into doctoral program or permission of instructor.

**NURS 783 - Economics of sustainable 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 sustainable health in developing and developed countries will be compared. **Prerequisites:** Admission into doctoral program or permission of instructor.

**NURS 784 - Sustainable Health and Public Policy****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 786 - DNP Project: Planning****Credits 2**

Planning, managing, evaluating, and sustaining change in the healthcare environment. Establishes communication with the faculty advisor to develop DNP project. **Prerequisites:** Completion of the first term of DNP coursework or permission of the instructor.

**NURS 787 - DNP Project: Implementing****Credits 2**

Topics that support students' implementation and evaluation of their DNP projects. **Prerequisites:** Completion of NURS 786 (Project Proposal Plan).

**NURS 788 - DNP Project: Defense****Credits 2**

Presentation and discussion of completed DNP projects on campus. **Prerequisites:** Completion of NURS 787.

**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. May be repeated to a maximum of 10 credits. **Prerequisites:** NURS 770, NURS 771, NURS 772, NURS 780, enrollment in nursing doctoral program.

**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. **Notes:** Must be taken concurrently with NURS 791. **Prerequisites:** NURS 724, NURS 733 and enrollment in nursing doctoral program.

### **NURS 791 - Independent Teaching Practicum**

#### **Credits 5**

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. May be repeated to a maximum of five credits. **Prerequisites:** NURS 724, NURS 733 and enrollment in nursing doctoral program.

### **NURS 792 - Outcomes Management & Performance Improvement in Nursing**

#### **Credits 3**

Application of concepts of quality improvement and safety to the management of outcomes in healthcare and nursing systems to ensure delivery of quality interprofessional care. **Prerequisites:** Completion of Term 3 of DNP 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 706, NURS 707, and 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. **Notes:** May be repeated, but only six credits may be applied to the student's program. **Grading:** S/F grading only. **Prerequisites:** NURS 706, NURS 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). **Notes:** Topics vary each semester. **Prerequisites:** Admission to graduate program and consent of instructor.

### **NURS 799 – Thesis**

#### **Credits 3**

**Notes:** May be repeated, but only six credits may be applied to the student's program. **Grading:** S/F grading only. **Prerequisites:** NURS 706, NURS 707.



# Community Health Sciences

## Founding Dean

### **Mary Guinan** - Full Graduate Faculty

Professor of Epidemiology and Community Health; M.D., Johns Hopkins University; Ph.D., University of Texas. *Rebel since 2004.*

## Executive Associate Dean

### **Shawn Gerstenberger** - Full Graduate Faculty

Professor of Environmental and Occupational Health; B.S., University of Wisconsin-Platteville University; M. S., Ph.D., University of Illinois. *Rebel since 1997.*

## Graduate Coordinators

### **Chino, Michelle** (MPH, M.Ed, & Ph.D. Programs) - Full Graduate Faculty

Associate Professor of Environmental and Occupational Health, B.S., M.S., Ph.D. University of New Mexico. *Rebel since 2000.*

### **Shen, Jie** - Full Graduate Faculty

Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University. *Rebel since 2006.*

## Graduate Faculty

### **Abella, Scott**

Associate Research Professor of Environmental and Occupational Health; B.S. Grand Valley State University; M.S. Clemson University; Ph.D. Northern Arizona University. *Rebel since 2011.*

### **Bungum, Timothy** - Full Graduate Faculty

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

### **Buttner, Mark P.** - Full Graduate Faculty

Associate Professor of Environmental and Occupational Health; B.S. University of Wisconsin; M.S. University of Nevada Las Vegas; Ph.D University of Nevada Reno. *Rebel since 1989.*

### **Chino, Michelle** - Full Graduate Faculty

Associate Professor of Environmental and Occupational Health; B.S., M.S., Ph.D. University of New Mexico. *Rebel since 2000.*

### **Cochran, Christopher** - Full Graduate Faculty

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

### **Cruz, Patricia** - Full Graduate Faculty

Associate Professor of Environmental and Occupational Health; B.S. University of Puerto Rico; M.S. University of Central Florida; Ph.D. University of Nevada Reno. *Rebel since 1995.*

### **Dodge Francis, Carolee** - Full Graduate Faculty

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

**Gerstenberger, Shawn** - *Full Graduate Faculty*

Professor of Environmental and Occupational Health; B.S., University of Wisconsin- Platteville University; M. S., Ph.D., University of Illinois. *Rebel since 1997.*

**Ginn, Gregory** - *Full Graduate Faculty*

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

**Liu, Darren** - *Full Graduate Faculty*

Assistant Professor of Health Care Administration and Policy; B.S. Kaohsiung Medical University, Taiwan; M.H.A. China Medical University, Taiwan; M.S. University of Pittsburgh; Dr. P.H. University of Pittsburgh. *Rebel since 2011.*

**Moonie, Sheniz**

Associate Professor of Biostatistics and Epidemiology; B.S., University of California San Diego; M.S., California Polytechnic University, Pomona; Ph.D. Saint Louis University. *Rebel since 2006.*

**Pinheiro, Paulo** - *Full Graduate Faculty*

Assistant Professor of Epidemiology.

**Regin, Charles** - *Full Graduate Faculty*

Assistant Professor of Health Promotion, B.S., M.S. University of Wisconsin-La Crosse; Ph.D. Southern Illinois University. *Rebel since 1987.*

**Shen, Jie** - *Full Graduate Faculty*

Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University. *Rebel since 2006.*

**Stetzenbach, Linda** - *Full Graduate Faculty*

Professor Emerita of Environmental and Occupational Health; B.S., M.S., Ph.D., University of Arizona. *Rebel since 2005.*

**Thompson-Robinson, Melva** - *Full Graduate Faculty*

Associate Professor of Health Promotion; B.S., University of Michigan; M.S. Ohio University; D.P.H., University of South Carolina. *Rebel since 2004.*

**Wong, David** - *Full Graduate Faculty*

Associate Research Professor; B.Sc., M.Sc., Ocean University of Qingdao; Ph.D. City University of Hong Kong. *Rebel since 2008.*

## **School of Community Health Sciences Plans**

### **Master of Public Health**

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.

#### *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.

### **Learning Outcomes**

[www.unlv.edu/degree/mph](http://www.unlv.edu/degree/mph)

### **Plan Admission Requirements**

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

- 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.
- Completion of the school's application process.
- 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.
- Three letters of recommendation.
- Take and submit scores for the Personal Potential Index (PPI) exam.
- All applicants to the MPH program who do not have a master's degree or higher will be required to submit GRE or equivalent (e.g., MCAT, LSAT) test scores no more than 5 years old.
- All applicants will submit the ETS Personal Potential Index (PPI) exam.
- Unofficial copies to the School of Public Health.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

#### *Dental Fast Track Program*

The Doctorate of Dental Medicine-Fast Track Masters of Public Health program is designed for those who seek a deeper understanding of disease prevention, medical delivery, and health promotion at both an individual and population level within the field of dentistry. The program enables students who graduate with both the Masters of Public Health and the Doctorate of Dental Medicine to become leaders in oral health research, education, and community dental health promotion. After completing the program, graduates will be eligible to apply for a position within a dental public health residency program.

Students interested in applying for the DMD-Fast Track MPH program should begin by applying for admissions to the UNLV School of Dental Medicine. Please see the School of Dental Medicine website for specific requirements and deadlines.

Current dental students interested in the Fast Track MPH program are encouraged to submit an application for permission to enter the program to the UNLV School of Dental Medicine Assistant Dean for Admissions and Student Affairs. This request form must accompany the Graduate College application for admissions into the MPH program. Completed packets will be submitted to the Graduate College for admissions to the Masters of Public Health program.

Students must indicate on their Graduate College application form that they are registering for the DMD-Fast Track MPH program and present evidence of being a current dental student in good standing by submitting a signed SDM application for permission to enter the program. While a dental student may apply for the fast track program at any time, they may not register for classes within the College of Community Health Sciences until the Fall semester of their sophomore year. Students will also be limited in the number of MPH classes they are allowed to pursue during their sophomore year of dental school. A cap of one MPH class a semester will be enforced. The junior and senior year of dental school, students in the fast track program will be allowed to take heavier course loads unless specifically stated otherwise by the Assistant Dean for Admissions and Student Affairs at the School of Dental Medicine.

## Plan Requirements

See Subplan Requirements below.

### Subplan 1 Requirements: Social and Behavioral Health Track

Total Credits Required: 45

#### Course Requirements

- Required Courses – 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
- Social and Behavioral Health Courses – Credits: 6
  - HED 720 - Program Planning and Grant Writing in Health Promotion
  - HED 730 - Program Evaluation in Health Promotion
- Methods Courses – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EAB 785 – Qualitative Methods
- Social Health Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 705 - Social Epidemiology
    - EOH 760 - Racial and Ethnic Disparities in Health
- Internship – Credits: 3
  - EOH 793 - Internship in Environmental Health
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a project must complete nine credits of elective coursework. Select from the following list:
    - HED 607 - Stress Management
    - HED 627 - Methods in Health Education
    - HED 629 - Education for Sexuality
    - HED 630 - Nutrition
    - HED 635 - Health Studies on Dangerous Drugs
    - HED 760 - Technology in Health Promotion
    - EOH 793 - Internship in Environmental Health
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - HED 750 - Graduate Project in Health Promotion
    - HED 755 - Thesis Research

## Degree Requirements

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College

Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Successfully complete the graduate project or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 2 Requirements: Environmental and Occupational Health Track**

Total Required Credits: 45

#### **Course Requirements**

- Required Courses – 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
- Environmental and Occupational Health Courses – Credits: 3
  - EOH 601 - Advanced Environmental Toxicology
- Health and Safety Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 717 - Food Safety and Public Health
    - EOH 747 - Transmission of Infectious Disease
- Environmental Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 765 - Seminar in Environmental Justice and Public Health
    - EOH 732 - Children, Development, Health, and the Environment
- Skill Development Courses – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EOH 709 - Scientific/Technical Writing for the Health and Life Sciences
- Internship – Credits: 3
  - EOH 793 - Internship in Environmental Health
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a project must complete six credits of elective coursework. Select from the following list:
    - EOH 705 - Social Epidemiology
    - EOH 713 - Public Health Law
    - EOH 715 - Qualitative & Field Methods for Public Health
    - EOH 732 - Children, Development, Health, and the Environment
    - 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
  - EAB 716 - The Epidemiology of Obesity
  - EOH 777 - Emerging Infectious Disease
  - EOH 795 - Special Topics in Public Health
  - EOH 796 - Independent Study in Environmental Health
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - EOH 794 - Professional Paper in Environmental Health
    - EOH 798 - Thesis Research (6 credits)

### **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation from up to two semesters prior to completing his/her degree requirements.
- Successfully complete the professional paper or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 3 Requirements: Health Care Administration and Policy Track**

Total Required Credits: 45

### **Course Requirements**

- Required Courses – 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 Care Admin & Policy Courses – Credits: 15
  - 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
- Internship – Credits: 3
  - HCA 713 - Internship in Health Care Administration
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 3-6

- Students completing a thesis must complete three credits of elective coursework, and students completing a project must complete six credits of elective coursework. Select from the following list or choose from other advisor approved courses from
- the pool of university approved graduate level courses:
  - 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 Managers
  - HCA 680 - Organization and Management of Long-Term Care Services
  - HCA 713 - Internship in Health Care Administration
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - HCA 709 - Health Care Administration Capstone Course (3 credits)
    - HCA 799 - Thesis Research (6 credits)

### **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- If the thesis option is chosen, in consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Students must receive prior approval from their committee before registering for any capstone experience.
- Successfully pass the capstone course or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 4 Requirements: Biostatistics and Epidemiology Track**

Total Required Credits: 45

### **Course Requirements**

- Required Courses – 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
- Biostatistics and Epidemiology Courses – Credits: 12
  - EAB 700 - Research Methods for Public Health
  - EAB 715 - Chronic Disease Epidemiology
  - EAB 725 - Epidemiology of Infectious Diseases
  - EAB 763 - Linear Statistical Models
- Internship – Credits: 3

- EAB 793 - Internship in Epidemiology and Biostatistics
- An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a professional paper must complete nine credits of elective coursework. Select from the following list:
    - 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 716 - The Epidemiology of Obesity
    - EAB 733 - Survey Sampling for the Health Sciences
    - EAB 735 - Outbreak Investigation
    - EAB 743 - Experimental Design for the Health Sciences
    - EAB 753 - Nonparametric Statistics for Public Health
    - EAB 773 - Survival Analysis for Public Health
    - EAB 793 - Internship in Epidemiology and Biostatistics
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - EAB 794 - Professional Paper in Epidemiology and Biostatistics (3 credits)
    - EAB 798 - Thesis Research in Epidemiology and Biostatistics (6 credits)

### **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Students must receive prior approval from their committee before registering for any capstone experience.
- Successfully complete the professional paper or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 5 Requirements: Dental Fast Track - Social and Behavioral Health**

Total Credits Required: 45

### **Course Requirements**

- Required Courses – 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
- Social and Behavioral Health Courses – Credits: 6
  - HED 720 - Program Planning and Grant Writing in Health Promotion
  - HED 730 - Program Evaluation in Health Promotion
- Methods Courses – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EAB 785 – Qualitative Methods
- Social Health Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 705 - Social Epidemiology
    - EOH 760 - Racial and Ethnic Disparities in Health
- Internship – Credits: 3
  - EOH 793 - Internship in Environmental Health
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a project must complete nine credits of elective coursework. Select from the following list:
    - Den 7151 – Healthcare Finance and Public Health (1 credit)
    - Den 7154 – Healthcare Delivery: Patient Record and HIPAA Regulations (1.5 credits)
    - Den 7160 – Research and Professional Development I (1 credit)
    - Den 7161 – Research and Professional Development II (1.5 credits)
    - Den 7162 – Biochemical Basis of Clinical Nutrition (3 credits)
    - Den 7252 – Community Outreach/Geriatric Population ( 3 credits)
    - Den 7253 – Research and Analysis Methodology (1.5 credits)
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - HED 750 - Graduate Project in Health Promotion (3 credits)
    - HED 755 - Thesis Research (6 credits)

## **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- Students enrolled in the DMD-Fast Track MPH program must remain in good academic/ethical standing in both the individual DMD and MPH programs or may be subject to dismissal.
- Students in the DMD-Fast Track MPH program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the School of Community Health Sciences.
- Upon date of entry into the MPH program, students will be given a maximum time frame of five years in which they must satisfy the degree requirements for the Masters in Public Health degree.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Successfully complete the graduate project or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Subplan 6 Requirements: Dental Fast Track - Environmental and Occupational Health**

Total Required Credits: 45

### **Course Requirements**

- Required Courses – 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
- Environmental and Occupational Health Courses – Credits: 3
  - EOH 601 - Advanced Environmental Toxicology
- Health and Safety Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 717 - Food Safety and Public Health
    - EOH 747 - Transmission of Infectious Disease
- Environmental Courses – Credits: 3
  - Complete one of the following courses:
    - EOH 765 - Seminar in Environmental Justice and Public Health
    - EOH 732 - Children, Development, Health, and the Environment
- Skill Development Courses – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EOH 709 - Scientific/Technical Writing for the Health and Life Sciences
- Internship – Credits: 3
  - EOH 793 - Internship in Environmental Health
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a project must complete nine credits of elective coursework. Select from the following list:
    - Den 7151 – Healthcare Finance and Public Health (1 credit)
    - Den 7154 – Healthcare Delivery: Patient Record and HIPAA Regulations (1.5 credits)
    - Den 7160 – Research and Professional Development I (1 credit)
    - Den 7161 – Research and Professional Development II (1.5 credits)
    - Den 7162 – Biochemical Basis of Clinical Nutrition (3 credits)
    - Den 7253 – Research and Analysis Methodology (1.5 credits)
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - EOH 794 - Professional Paper in Environmental Health (3 credits)
    - EOH 798 - Thesis Research (6 credits)

### **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- Students enrolled in the DMD-Fast Track MPH program must remain in good academic/ethical standing in both the individual DMD and MPH programs or may be subject to dismissal.
- Students in the DMD-Fast Track MPH program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the School of Community Health Sciences.

- Upon date of entry into the MPH program, students will be given a maximum time frame of five years in which they must satisfy the degree requirements for the Masters in Public Health degree.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation from up to two semesters prior to completing his/her degree requirements.
- Successfully complete the professional paper or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 7 Requirements: Dental Fast Track - Health Care Administration and Policy**

Total Required Credits: 45

#### **Course Requirements**

- Required Courses – 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 Care Admin & Policy Courses – Credits: 15
  - 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
- Internship – Credits: 3
  - HCA 713 - Internship in Health Care Administration
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 3-6
  - Students completing a thesis must complete three credits of elective coursework, and students completing a project must complete six credits of elective coursework. Select from the following list:
    - Den 7151 – Healthcare Finance and Public Health (1 credit)
    - Den 7154 – Healthcare Delivery: Patient Record and HIPAA Regulations (1.5 credits)
    - Den 7160 – Research and Professional Development I (1 credit)
    - Den 7161 – Research and Professional Development II (1.5 credits)
    - Den 7162 – Biochemical Basis of Clinical Nutrition (3 credits)
    - Den 7253 – Research and Analysis Methodology (1.5 credits)
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - HCA 709 - Health Care Administration Capstone Course (3 credits)
    - HCA 799 - Thesis Research (6 credits)

## **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- Students enrolled in the DMD-Fast Track MPH program must remain in good academic/ethical standing in both the individual DMD and MPH programs or may be subject to dismissal.
- Students in the DMD-Fast Track MPH program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the School of Community Health Sciences.
- Upon date of entry into the MPH program, students will be given a maximum time frame of five years in which they must satisfy the degree requirements for the Masters in Public Health degree.
- If the thesis option is chosen, in consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Students must receive prior approval from their committee before registering for any capstone experience.
- Successfully pass the capstone course or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Subplan 8 Requirements: Dental Fast Track - Biostatistics and Epidemiology**

Total Required Credits: 45

### **Course Requirements**

- Required Courses – 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
- Biostatistics and Epidemiology Courses – Credits: 12
  - EAB 700 - Research Methods for Public Health
  - EAB 715 - Chronic Disease Epidemiology
  - EAB 725 - Epidemiology of Infectious Diseases
  - EAB 763 - Linear Statistical Models
- Internship – Credits: 3
  - EAB 793 - Internship in Epidemiology and Biostatistics
  - An additional 3 credits of internship may be taken as an elective for a total of 6 credits of internship.
- Elective Courses – Credits: 6-9
  - Students completing a thesis must complete six credits of elective coursework, and students completing a project must complete nine credits of elective coursework. Select from the following list:
    - Den 7151 – Healthcare Finance and Public Health (1 credit)
    - Den 7154 – Healthcare Delivery: Patient Record and HIPAA Regulations (1.5 credits)

- Den 7160 – Research and Professional Development I (1 credit)
  - Den 7161 – Research and Professional Development II (1.5 credits)
  - Den 7162 – Biochemical Basis of Clinical Nutrition (3 credits)
  - Den 7253 – Research and Analysis Methodology (1.5 credits)
- Culminating Experience – Credits: 3-6
  - Complete one of the following:
    - EAB 794 - Professional Paper in Epidemiology and Biostatistics (3 credits)
    - EAB 798 - Thesis Research in Epidemiology and Biostatistics (6 credits)

## **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.
- Students enrolled in the DMD-Fast Track MPH program must remain in good academic/ethical standing in both the individual DMD and MPH programs or may be subject to dismissal.
- Students in the DMD-Fast Track MPH program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the School of Community Health Sciences.
- Upon date of entry into the MPH program, students will be given a maximum time frame of five years in which they must satisfy the degree requirements for the Masters in Public Health degree.
- In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

## **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- Students must receive prior approval from their committee before registering for any capstone experience.
- Successfully complete the professional paper or successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
- If a thesis is completed, the student must submit his/her approved, properly formatted hard-copy document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## **Plan Graduation Requirements**

Refer to your subplan for Graduation Requirements.

- Subplan 1: Social and Behavioral Health Track
- Subplan 2: Environmental and Occupational Health Track
- Subplan 3: Health Care Administration and Policy Track
- Subplan 4: Biostatistics and Epidemiology Track
- Subplan 5: Dental Fast Track – Social and Behavioral Health
- Subplan 6: Dental Fast Track – Environmental and Occupational Health
- Subplan 7: Dental Fast Track – Health Care Administration and Policy
- Subplan 8: Dental Fast Track – Biostatistics and Epidemiology

## **Doctor of Philosophy - Public Health**

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.

Students with an MPH from the UNLV SCHS must complete 48 credits beyond the Master of Public Health (MPH). Students with an MPH from another institution must complete 48 credits beyond the master's plus an additional 6 credits of deficiency. Students with a master's degree in a related field must complete 48 credits beyond the master's degree plus an additional 15 credits of deficiency.

### *Educational Objectives*

The Ph.D. – 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.

The curriculum was developed jointly by faculty from the Schools of Community Health Sciences 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.

Students in the program are admitted to either UNLV or UNR and follow the course requirements from their home institution. Courses may be taken at either institution. A Chair from the admitting institution supervises and the dissertation but the doctoral committee may include members from either or both institutions.

This program is competitive and space is limited. More students will apply than will be admitted. The most competitive students will have a strong academic record and a clear plan for their proposed research.

Completion of the Ph.D. demonstrates that the graduate has the advanced research skills and competencies necessary to succeed in high level research careers.

Upon admission each student will be assigned an academic (not dissertation) advisor who will help the student begin planning a program of study. Students are expected to identify a dissertation committee before the end of their second semester in the program.

### **Learning Objectives**

[www.unlv.edu/degree/phd-publichealth](http://www.unlv.edu/degree/phd-publichealth)

### **Plan Admission Requirements**

Admission into the Public Health PhD Program at UNLV will require applicants to meet the standard 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 openings for new students. Doctoral students are admitted as a cohort, once a year, for the fall semester. Applicants must have submitted all required materials by the April 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:

- Earned a bachelor's and Master's of Public Health (MPH) or a 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.
- A minimum grade point average of 3.0 (4.0=A) earned in a masters' program of study. The most competitive students will have a master's level GPA of 3.5 or higher.
- 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. The most competitive students will have a combined verbal/quantitative GRE score of 1200 (old test) /300 (new test) or higher. The GRE is required for all applicants.

- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
- Letters of Recommendation- Three (3) letters of recommendation are required from faculty and other individuals who can evaluate the applicant's motivation, academic capability, scholarship potential, and personal goals for doctoral study.
- Written Self-Presentation- Applicants must submit for review a written statement of personal career, educational and scholarship goals including identification of research interests. The most competitive students will clearly identify their plan for dissertation research and its contribution to the field of public health.
- Interview-Applicants may be asked to participate in an interview with member(s) of the Admissions Committee, either in person or by telephone. Applicants may also be asked to submit a writing sample.
- Applicants must identify an Area of Emphasis (sub plan) at the time of application.
- All students are required to take or have taken at the Master's level the following 27 credit hours or their approved equivalent:

#### *UNLV Courses*

- EOH 740 - Fundamentals of Environmental Health
- EAB 703 - Biostatistical Methods for the Health Sciences
- HED 705 - Theoretical Foundations in Health Promotion
- EOH 747 - Transmission of Infectious Disease
- EAB 705 - Epidemiology and Public Health
- HCA 701 - U.S. Health Care System: Programs and Policies
- EOH 704 - Research Integrity & Ethics

#### *UNR Courses*

- PUBH 725 – Health and the Environment
- PUBH 780 – Biostatistics in Public Health
- PUBH 701 – Social and Behavioral Health
- PUBH 620 – Biological Basis of Health & Disease
- PUBH 712 – Epidemiology in Public Health
- PUBH 755 – Policy and Health Administration
- PUBH 785 – Public Health Ethics

### **Plan Requirements**

See Subplan Requirements below.

### **Subplan 1 Requirements: Environmental and Occupational Health Track**

Total Credits Required: 48

### **Course Requirements**

- Required Courses – Credits: 15
- Complete five courses from the following lists from either UNLV or UNR:
  - UNLV Courses:
    - EOH 709 - Scientific/Technical Writing for the Health and Life Sciences
    - EOH 717 - Food Safety and Public Health

- EOH 737 – Public Health Microbiology
- EOH 757 - Parasitology and Public Health
- EOH 767 - Bioaerosols and Human Health
- EOH 765 - Seminar in Environmental Justice and Public Health
- EOH 769 - Advanced Pollution Ecology
- EOH 777 - Emerging Infectious Disease
- HPS 680 - Industrial Hygiene
- HPS 781 - Industrial Hygiene II
- EAB 715 - Chronic Disease Epidemiology
- ENV 711 - Risk Assessment and Risk Management
- Or
- ENV 712 - Environmental Risk Decision Making
- UNR Courses:
  - ATMS 612 – Introduction to Air Pollution
  - CEE 617 – Intro to Env Quality and Analysis
  - CEE 653 – Environmental Microbiology
  - CEE 658 – Fundamentals of Env Chemistry
  - HE 695 – Toxic Communities and Public Health
  - NRES 612 – Environmental Law
  - NRES 633 – Env Chemicals: Exp, Trans & Fate
  - NRES 672 – Environmental Health and Safety
  - NUTR 723 – Food and Nutritional Toxicology
  - PCS 603D – Global Environmental Policy
  - PUBH 695 – Biochemical and Molec Mech of Toxicity
  - PUBH 730 – Biomarkers of Human Disease
  - PUBH 735 – Intro to Exposure Assessment and Control
  - PUBH 753 – Health Informatics
  - PUBH 776 – Essentials of Occupational Health
  - PUBH 777 – Fundamental of Industrial Hygiene
  - PUBH 781 – Env-Occup Health Risk Assessment
- Methods Course – Credits: 3
  - EAB 700 - Research Methods for Public Health
- Research Courses – Credits: 6
  - Complete two of the following courses:
    - EAB 733 - Survey Sampling for the Health Sciences
    - EAB 753 - Nonparametric Statistics for Public Health
    - EAB 763 - Linear Statistical Models
    - EAB 773 - Survival Analysis for Public Health
    - EAB 783 - Multivariate Methods for the Health Sciences
- Elective Courses – Credits: 3
  - Complete 3 credits of advisor-approved coursework.
- Dissertation – Credits: 21
  - Complete either 3 credits of prospectus and 18 credits of dissertation, or 21 credits of dissertation.
    - EOH 797 - Dissertation Prospectus
    - EOH 799 - Dissertation

## **Degree Requirements**

See Plan Degree Requirements below.

## **Graduation Requirements**

See Plan Graduation Requirements below.



## **Subplan 2 Requirements: Social Behavioral Health Track**

Total Credits Required: 48

### **Course Requirements**

- Required Courses – Credits: 6
  - EOH 705 - Social Epidemiology
  - EOH 760 - Racial and Ethnic Disparities in Health
- Elective Courses – Credits: 12
  - Complete 12 credits of additional advisor-approved elective courses.
- Methods Courses – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EOH 715 - Qualitative & Field Methods for Public Health
- Research Courses – Credits 6
  - Complete two of the following courses:
    - EAB 733 - Survey Sampling for the Health Sciences
    - EAB 743 - Experimental Design for the Health Sciences
    - EAB 753 - Nonparametric Statistics for Public Health
    - EAB 763 - Linear Statistical Models
    - EAB 773 - Survival Analysis for Public Health
    - EAB 783 - Multivariate Methods for the Health Sciences
- Dissertation – Credits: 21
  - Complete either 3 credits of prospectus and 18 credits of dissertation, or 21 credits of dissertation.
    - EOH 797 - Dissertation Prospectus
    - EOH 799 - Dissertation

### **Degree Requirements**

See Plan Degree Requirements below.

### **Graduation Requirements**

See Plan Graduation Requirements below.

## **Subplan 3 Requirements: Epidemiology and Biostatistics Track**

Total Credits Required: 48

### **Course Requirements**

- Required Courses – Credits: 6
  - EAB 756 - Epidemiology and Research
  - EAB 715 - Chronic Disease Epidemiology
- Epidemiology Courses – Credits 6
  - Complete two of the following courses:
    - EAB 755 - Cancer Epidemiology
    - EAB 716 - The Epidemiology of Obesity
    - EOH 705 - Social Epidemiology
- Methods Course – Credits: 3
  - Complete one of the following courses:
    - EAB 700 - Research Methods for Public Health
    - EOH 715 - Qualitative & Field Methods for Public Health

- Research Courses – Credits: 6
  - Complete two of the following courses:
    - EAB 733 - Survey Sampling for the Health Sciences
    - EAB 743 - Experimental Design for the Health Sciences
    - EAB 753 - Nonparametric Statistics for Public Health
    - EAB 763 - Linear Statistical Models
    - EAB 773 - Survival Analysis for Public Health
    - EAB 783 - Multivariate Methods for the Health Sciences
- Elective Courses – Credits: 6
  - Complete 6 credits of advisor-approved coursework.
- Dissertation – Credits: 21
  - Complete either 3 credits of prospectus and 18 credits of dissertation, or 21 credits of dissertation.
    - EOH 797 - Dissertation Prospectus
    - EOH 799 - Dissertation

## **Degree Requirements**

See Plan Degree Requirements below.

## **Graduation Requirements**

See Plan Graduation Requirements below.

## **Subplan 4 Requirements: Health Service Management and Policy Track**

Total Credits Required: 48

## **Course Requirements**

- Required Courses – Credits: 12
  - Complete four of the following courses:
    - HCA 703 - Management of Health Service Organizations and Systems
    - HCA 652 - Health Politics and Policy
    - 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
- Methods Courses – Credits: 6
  - HCA 715 - Health Services Research Methods
  - EOH 715 - Qualitative & Field Methods for Public Health
- Research Courses – Credits: 6
  - Complete two of the following courses:
    - EAB 733 - Survey Sampling for the Health Sciences
    - EAB 753 - Nonparametric Statistics for Public Health
    - EAB 763 - Linear Statistical Models
    - EAB 773 - Survival Analysis for Public Health
    - EAB 783 - Multivariate Methods for the Health Sciences
    - ECO 772 - Econometrics II
    - MBA 767 - Market Opportunity Analysis
- Elective Courses – Credits: 3
  - Complete 3 credits of advisor-approved coursework.

- Dissertation – Credits: 21
  - Complete either 3 credits of prospectus and 18 credits of dissertation, or 21 credits of dissertation.
    - EOH 797 - Dissertation Prospectus
    - EOH 799 - Dissertation

### **Degree Requirements**

See Plan Degree Requirements below.

### **Graduation Requirements**

See Plan Graduation Requirements below.

### **Plan Degree Requirements**

- 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.
- All students are required to complete a written Comprehensive 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 Comprehensive Examination may only be repeated once and must be repeated within one semester of the initial attempt. Students unable to pass the Comprehensive Examination after a second attempt will be separated from the program.
- After successful completion of the Comprehensive Exam the student must establish 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, a Graduate College Representative. Students may also elect to add approved, external committee member with expertise in the student's selected area of emphasis.
- Upon completion of all required course work other than dissertation, each student must take oral Qualifying Examination that will focus on those areas of knowledge most relevant to the student's dissertation topic. Qualifying examinations may only be repeated once and must be repeated within one semester of the initial attempt. If a student fails a second attempt, the student will be separated from the program.
- Upon successful completion of the Qualifying examination, the student will present a dissertation prospectus to his/her committee and an oral presentation to peers and faculty. The prospectus is a written and oral presentation of the student's dissertation research plan. The written prospectus should be the equivalent of the first three chapters of the dissertation. The oral presentation is a public presentation of the research plan. The prospectus becomes the agreement for the student's dissertation research. Upon approval of the prospectus, the student advances to candidacy, can register for dissertation credits, and begin their independent research.
- Upon completion of the dissertation, the student must pass a final oral examination that involves the public presentation and successful defense of their dissertation study. All advisory committee members must be present for the final defense 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 dissertation completion. It is the student's responsibility to file all required forms and written materials with the Graduate College in a timely manner.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

- Student must submit his/her approved, properly formatted hard-copy dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

## School of Community Health Sciences Courses

### **EAB 700 - Research Methods for Public Health**

#### **Credits 3**

Provides a foundation in research methodology for public health professionals. Topics include basic sampling and experimental designs, quantitative and qualitative methods in research, mathematical and economic models in research, and multidisciplinary approaches to designing research programs. **Prerequisites:** EAB 703 or consent of instructor.

### **EAB 703 - Biostatistical Methods for the Health Sciences**

#### **Credits 3**

Designed to provide a foundation in biostatistics for graduate students in the health sciences. Topics include probability, distributions, estimation, hypothesis testing, ANOVA, simple and multiple regression, vital statistics, and nonparametric methods. **Prerequisites:** Undergraduate mathematics through calculus, comparable graduate coursework, or consent of instructor.

### **EAB 704 - Research Integrity & Ethics**

#### **Credits 3**

Designed to provide students with an understanding of how to conduct responsible research. Covers the concepts of scientific ethics and integrity broadly in order to provide a foundation for future research professionals. Topics include ethical principles, peer review, mentoring, IRB, collaborative research, and scientific record keeping.

### **EAB 705 - Epidemiology and Public Health**

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 designs.

### **EAB 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.

### **EAB 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 bio statistics, and health care administration in the public health arena.

### **EAB 715 - Chronic Disease Epidemiology**

#### **Credits 3**

Surveys the major chronic diseases with an emphasis on recent epidemiological research and findings, demographic and populations aspects of chronic illness, causation and risk factors, prevention, and control. **Prerequisites:** HED 725 or consent of instructor.

### **EAB 716 - The Epidemiology of Obesity**

#### **Credits 3**

Describes the epidemiology and prevention of obesity and associated complications. Discusses methodological issues associated with evaluating epidemiologic studies that target obesity. Designed to cover the global epidemic of obesity, the environmental and behavioral risk factors, as well as interventions to reduce and prevent obesity.

### **EAB 720 - Grant Writing for Epidemiology and Public Health Research**

#### **Credits 3**

Covers the process of designing competitive research grant proposals from conceptualization to grant management.

**Prerequisites:** Core epidemiology class, research methods.

### **EAB 725 - Epidemiology of Infectious Diseases**

#### **Credits 3**

Introduces the basic concepts in infectious disease epidemiology. Students develop a basic conceptual understanding and analytic skills in the investigation and control of infectious diseases in human populations. Students describe the most common infectious diseases, including their transmission, pathogenesis, treatment, prevention, and control.

**Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

### **EAB 733 - Survey Sampling for the Health Sciences**

#### **Credits 3**

Introduces the basics of sampling theory and application in the health sciences. Several popular designs will be covered in depth. Other topics include sources of error in sampling, design of surveys, and population size determination. **Prerequisites:** EAB 703 or consent of instructor.

### **EAB 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. **Prerequisites:** HED 725/EAB 705 or equivalent

### **EAB 743 - Experimental Design for the Health Sciences**

#### **Credits 3**

Provides thorough coverage of experimental design for student in the health sciences. Topics include single factor designs, factorial experiments, within-factor designs, nested designs, analysis of trend, and general linear models.

**Prerequisites:** EAB 703 or consent of instructor.

### **EAB 745 - Epidemiological Surveillance**

#### **Credits 3**

Students will explore systems currently in place, both in the United States and internationally, and will learn the methodology used to analyze surveillance data. Students will learn about effective surveillance systems through lecture and case studies of existing surveillance systems.

### **EAB 753 - Nonparametric Statistics for Public Health**

#### **Credits 3**

Designed to provide a strong foundation in nonparametric statistical methods commonly used in public health.

Topics explored in the course include ranked data, transformation of ranks, methods for paired and independent samples, nonparametric regression and correlation, categorical data analysis, and robust estimation. **Prerequisites:** Graduate level biostatistics.

### **EAB 755 - Cancer Epidemiology**

#### **Credits 3**

This course is an introduction to cancer epidemiology. The objective is to make the student use, learn and consolidate basic analytic skills in developing research projects in cancer. It includes among others the following topics: trends, biology of cancer, issues in prostate, breast, colorectal, lung, and cervical cancer, cancer screening, GIS and spatial analysis in cancer, survival, and migrant studies.

### **EAB 756 - Epidemiology and Research**

**Credits 3**

Topics in Epidemiology II include analytic reasoning in public health and in disease surveillance, descriptive epidemiology and causal inference with a special emphasis on study design. This course will largely make use of scientific articles to provide students with a solid basis to critically analyze and develop medical/public health research. May be repeated to a maximum of three credits. **Prerequisites:** EAB 703 and EAB 705

**EAB 763 - Linear Statistical Models****Credits 3**

Explores the foundations and applications of linear statistical models. Applications include simple, multivariate, and logistic regression; time series analysis; single -/multiple-factor ANOVA; random and mixed effects models; and ANCOVA. Several experimental designs will also be explored. **Prerequisites:** Graduate level biostatistics.

**EAB 773 - Survival Analysis for Public Health****Credits 3**

Explores the broad area of survival analysis for analyzing data derived from laboratory, clinical, and epidemiological studies. Methods explored in this course include survival functions, data censoring, hazard models, regression models, and parametric/nonparametric methods for comparing survival models. **Prerequisites:** EAB 753 and EAB 763.

**EAB 783 - Multivariate Methods for the Health Sciences****Credits 3**

Provides an in- depth coverage of common multivariate methods. Topics include multivariate correlation and regression, multivariate ANOVA, logistic regression, factor analysis, time series analysis, and principle component analysis. Emphasis placed on application of techniques useful for students in the health sciences. **Prerequisites:** EAB 773 or consent of instructor.

**EAB 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.

**EAB 793 - Internship in Epidemiology and Biostatistics****Credits 1 – 3**

Capstone experiences for the MPH degree and is intended to provide students with applied work experience in a local agency, organization, center or institute. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EAB 794 - Professional Paper in Epidemiology and Biostatistics****Credits 3**

Provides the opportunity for a graduate degree candidate to be involved in an in-depth project. A formal paper and presentation describing the project culminate this experience. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EAB 795 - Special Topics in Epidemiology and Biostatistics****Credits 1 – 3**

Selected topic of current interest in epidemiology and biostatistics. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EAB 796 - Independent Study in Epidemiology and Biostatistics****Credits 1 – 3**

Independent study of a selected topic in Epidemiology or Biostatistics. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EAB 798 - Thesis Research in Epidemiology and Biostatistics****Credits 1 – 6**

**Notes:** May be repeated, but a maximum of six credits will apply towards the student's degree program.

**EOH 601 - Advanced Environmental Toxicology**

The following course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

**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. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**HCA 652 - Health Politics and Policy**

**Credits 3**

Role of politics and policy-making as an external environmental impact on health care. Describes the political process in health care policy-making at all government levels. Interest group politics introduced in the context of the roles that these groups play in health care policy development and how these forces and health care organizations react to shape health care policy. Prerequisites: HIST 100, PSC 100, or PSC 101. 3 credits.

**HCA 680 - Organization and Management of Long-Term Care Services**

**Credits 3**

ORG & MGT OF LONG TERM CARE SERVICES

**HED 629 - Education for Sexuality**

Graduate credit may be obtained for this course designated 600 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Credit at the 600 level normally requires additional work.

## Environmental and Occupational Health

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.

*Michelle Chino, Ph.D., Chair*  
*Sheniz Mooney, Graduate Coordinator*

### Chair

**Chino, Michelle** - *Full Graduate Faculty*

Associate Professor of Environmental and Occupational Health, B.S., M.S., PhD. University of New Mexico. *Rebel since 2000.*

### Graduate Faculty

**Bungum, Timothy** - *Full Graduate Faculty*

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

**Buttner, Mark P.** - *Full Graduate Faculty*

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

**Chino, Michelle** - *Full Graduate Faculty*

Associate Professor of Environmental and Occupational Health, B.S., M.S., PhD. University of New Mexico. *Rebel since 2000.*

**Cross, Chad** - *Associate Graduate Faculty*

Associate Professor of Biostatistics and Epidemiology; B.S., Purdue University; M.S., PhD. Old Dominion University. *Rebel since 2005.*

**Cruz, Patricia** - *Full Graduate Faculty*

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

**Dodge Francis, Carolee** - *Full Graduate Faculty*

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

**Moonie, Sheniz** - *Full Graduate Faculty*

Assistant Professor of Biostatistics and Epidemiology, BS University of California San Diego; MS California Polytechnic University, Pomona; PhD Saint Louis University. *Rebel since 2006.*

**Stetzenbach, Linda** - *Full Graduate Faculty*

Professor Emeritus of Environmental and Occupational Health; B.S., M.S., PhD. University of Arizona. *Rebel since 2005.*

**Thompson-Robinson, Melva** - *Full Graduate Faculty*

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



**Wong, David** - Full Graduate Faculty

Associate Research Professor. B.Sc., M.Sc. Ocean University of Qingdao, PhD. City University of Hong Kong. *Rebel since 2008.*

## **Environmental and Occupation Health Courses**

### **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 704 - Research Integrity & Ethics**

#### **Credits 3**

RESEARCH INTEGRITY & ETHICS

### **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 bio statistics, and health care administration in the public health arena.

### **EOH 711 - Diseases that Changed the World**

#### **Credits 3**

Human disease has played a significant role in social and political changes worldwide. In this course students will study the impact of people and disease on historical events, and present written and oral discussions of selected topics including how these events impact 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 of 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 766 - Biological Invasions and Environmental Health****Credits 3**

This class covers topics with regard to the human introduction, impacts, and prevention of invasive species to environmental health, such as invasion theory, species distinction, ecosystem health, social and economic impacts, invasive species control and management.

**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 - Doctoral Seminar****Credits 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. **Notes:** S/U grading only.

**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. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EOH 795 - Special Topics in Public Health****Credits 3**

Selected topic of current interest not covered in any existing courses in environmental and occupational health. **Notes:** May be repeated to a maximum of three credits. **Prerequisites:** Admission to the School of Community Health Sciences 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. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Admission to the School of Community Health Sciences or consent of instructor.

**EOH 797 - Dissertation Prospectus**

**Credits 3**

This course is designed to guide students in the development of their dissertation prospectus.

**EOH 798 - Thesis Research**

**Credits 1 – 6**

**Notes:** 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. **Notes:** May be repeated to a maximum of 12 credits.

**Prerequisites:** PhD standing

## Healthcare Administration and Policy

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.

*Chris Cochran, Ph.D., Chair*

*Jie Shen, Ph.D., Graduate Coordinator*

### Chair

**Moseley, Charles** - *Full Graduate Faculty*

Associate Professor of Health Care Administration; Ph.D., Virginia Commonwealth University. *Rebel since 1991.*

### Graduate Coordinator

**Cochran, Christopher** - *Full Graduate Faculty*

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

### Graduate Faculty

**Ginn, Gregory** - *Full Graduate Faculty*

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

**Shen, Jie** - *Full Graduate Faculty*

Associate Professor of Health Care Administration and Policy; Ph.D., Virginia Commonwealth University. *Rebel since 2006.*

# **Health Care Administration and Policy Plan**

## **Master of Healthcare Administration**

### **Plan Description**

The Master of Health Care Administration degree program is the only graduate health care administration program in the Nevada System of Higher Education (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.

### **Learning Outcomes**

[www.unlv.edu/degree/mha](http://www.unlv.edu/degree/mha)

### **Plan Admission Requirements**

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

- 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 bachelor's degree program, and in all post-baccalaureate course work. An applicant who does not meet this academic criterion may request special consideration.
- Submit the following documents as part of your online application for admission:
  - A one to two page personal essay describing why they want to pursue a career in health care management.
  - A resume.
  - Unofficial transcripts from all post-secondary institutions attended.
  - Contact information for three recommendation providers who will upload letters of recommendation on your behalf.
  - Official GMAT or GRE scores.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

### **Plan Requirements**

See Subplan Requirements below.

### **Subplan 1 Requirements: Thesis Track**

Total Credits Required: 48

### **Course Requirements**

- Required Courses – Credits: 42
  - HCA 701 - U.S. Health Care System: Programs and Policies

- HCA 702 - Epidemiology in Health Services Management
- 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
- Thesis – Credits: 6
  - HCA 799 - Thesis Research

### **Degree Requirements**

- Completion of a minimum of 48 credit hours with a minimum GPA of 3.00.
- In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
- Students must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 2 Requirements: Non-Thesis Track**

Total Credits Required: 45

### **Course Requirements**

- Required Courses – Credits: 42
  - HCA 701 - U.S. Health Care System: Programs and Policies
  - HCA 702 - Epidemiology in Health Services Management
  - 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
- Capstone Course – Credits: 3
  - HCA 709 - Health Care Administration Capstone Course

### **Degree Requirements**

- Completion of a minimum of 45 credit hours with a minimum GPA of 3.00.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
- The student must successfully complete the capstone course.

### **Plan Graduation Requirements**

Refer to your subplan for Graduation Requirements.

- Subplan 1: Thesis Track
- Subplan 2: Non-Thesis Track

## **Health Care Administration and Policy Courses**

### **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.

### **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:** ECON 102 or equivalent, 3 hours of undergraduate microeconomics.

### **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:** ACC 201 or equivalent, 3 hours of undergraduate accounting.

### **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. **Notes:** 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. **Notes:** 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. **Notes:** May be repeated to a maximum of six credits. **Grading:** S/F grading only. **Prerequisites:** Consent of instructor.

**HCA 799 - Thesis Research****Credits 3**

**Notes:** 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

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.

*Shawn Gerstenberger, Ph.D., Chair*

### Chair

**Gerstenberger, Shawn** - Full Graduate Faculty

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

### Graduate Coordinator

**Thompson-Robinson, Melva** - Full Graduate Faculty

Associate Professor; B.S., University of Michigan; M.S.P.E., Ohio University; Dr. PH., University of South Carolina. *Rebel since 2004.*

## Graduate Faculty

### **Bungum, Timothy** - *Full Graduate Faculty*

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

### **Buttner, Mark P.** - *Full Graduate Faculty*

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

### **Chino, Michelle** - *Full Graduate Faculty*

Associate Professor of Environmental and Occupational Health, B.S., M.S., Ph.D. University of New Mexico. *Rebel since 2000.*

### **Cochran, Christopher** - *Full Graduate Faculty*

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

### **Cross, Chad** - *Associate Graduate Faculty*

Associate Professor of Biostatistics and Epidemiology; B.S., Purdue University, M.S., Ph.D. Old Dominion University. *Rebel since 2005.*

### **Dodge Francis, Carolee** - *Full Graduate Faculty*

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

### **Ginn, Gregory** - *Full Graduate Faculty*

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

### **McNab, Warren** - *Associate Graduate Faculty*

Professor; B.S., M.S., Mankato State University; Ph.D., Southern Illinois University. *Rebel since 1979.*

### **Moonie, Sheniz** - *Full Graduate Faculty*

Assistant Professor of Biostatistics and Epidemiology, BS University of California San Diego, MS California Polytechnic University, Pomona, PhD Saint Louis University. *Rebel since 2006.*

### **Moseley, Charles** - *Full Graduate Faculty*

Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University. *Rebel since 1991.*

### **Regin, Charles** - *Associate Graduate Faculty*

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

### **Shen, Jie** - *Full Graduate Faculty*

Associate Professor and Chair of Health Care Administration and Policy; Ph.D. Virginia Commonwealth University. *Rebel since 2006.*

### **Wong, David** - *Full Graduate Faculty*

Associate Research Professor. B.Sc., M.Sc. Ocean University of Quingdao, Ph.D. City University of Hong Kong. *Rebel since 2008.*

## Health Promotion Courses

**HED 607 - Stress Management****Credits 3**

STRESS MANAGEMENT

**HED 627 - Methods in Health Education****Credits 3**

METHODS IN HEALTH EDUCATION

**HED 630 – Nutrition****Credits 3**

NUTRITION

**HED 635 - Health Studies on Dangerous Drugs****Credits 3**

HEALTH STUDIES ON DANGEROUS DRUGS

**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). **Notes:** 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 705, HED 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. **Notes:** May be repeated up to a maximum of six credits. **Prerequisites:** Consent of instructor and graduate program advisor.

# William F. Harrah College of Hotel Administration

Graduate education in the William F. Harrah College of Hotel Administration is a personalized experience. There is no better place to learn about the hospitality profession than the entertainment capital of the world-Las Vegas. Here we have a living laboratory with more than 146,000 hotel rooms and hundreds of casinos, restaurants, resorts, sporting events, conventions, trade shows, and leisure and recreation facilities. If you are interested in a post-graduate degree that will advance your career or prepare you to teach others about the hospitality industry, this is the place for you.

We offer a master's of science degree in Hotel Administration plus a dual MBA and M.S. in Hotel Administration degree, and, a dual M.S. in Hotel Administration and M.S. in Management Information Systems degree. We also have an executive master's degree and a Ph.D. in Hospitality Administration. Our internationally recognized, diverse faculty members will help you create an academic program that meets your unique needs.

The William F. Harrah College of Hotel Administration is known for its tradition of offering world-class programs in hospitality administration. The Ace Denken Co. Ltd. Endowment supports the Ph.D. in Hospitality Administration.

*Stowe Shoemaker, Ph.D., Dean, William F. Harrah College of Hotel Administration*

*James Busser, Ph.D., Associate Dean of Academic Affairs*

*Tony L. Henthorne, Ph.D., Associate Dean of Research and Graduate Programs*

*Pat Moreo, Ph.D., Associate Dean of Strategic Initiatives*

*Billy Bai, Ph.D., Senior Assistant Dean of Academic Affairs*

*Jean Hertzman, Ph.D., Assistant Dean of Operations*

## Hotel Administration

### Dean

**Stowe Shoemaker** - *Full Graduate Faculty*

Professor; B.S., University of Vermont; M.S., University of Massachusetts; Ph.D., Cornell University. *Rebel since 2012.*

### Associate Deans

**James A. Busser** - *Full Graduate Faculty*

Associate Dean of Academic Affairs; Director, Ph.D. Program; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. *Rebel since 1987.*

**Tony L. Henthorne** - *Full Graduate Faculty*

Associate Dean of Research and Graduate Programs; Professor; B.A., Ouachita Baptist University; M.B.A., University of Arkansas, Fayetteville; Ph.D., University of Mississippi. *Rebel since 2008.*

**Pat Moreo** - *Full Graduate Faculty*

Associate Dean of Strategic Initiatives; Professor; B.S., University of Nevada Las Vegas; M.P.S., Cornell University; Ed.D., University of Nevada, Las Vegas. *Rebel since 2006.*

### Graduate Studies

**James A. Busser** - *Full Graduate Faculty*

Associate Dean of Academic Affairs; Director, Ph.D. Program; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. *Rebel since 1987.*

**Sarah Tanford** - *Full Graduate Faculty*

Director of M.S. in Hotel Administration Program; Assistant Professor; B.A., Northwestern University; M.S., Ph.D., University of Wisconsin-Madison. *Rebel since 2008.*

**Gail Sammons** - *Full Graduate Faculty*

Director of Master of Hotel Administration Program; Professor; B.S., North Dakota State University; M.S., University of Nevada, Las Vegas; Ph.D., Pennsylvania State University. *Rebel since 1996.*

**Karl Mayer** - *Full Graduate Faculty*

Director, Dual MBA/Master of Science in Hotel Administration and Master of Science in Hotel Administration/Master of Science in Management Information Systems Programs; Associate Professor; B.S., University of Wisconsin-Madison; M.S., Columbia University; M.B.A., Harvard University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2001.*

## **Graduate Faculty**

**Bai, Billy** - *Full Graduate Faculty*

Senior Assistant Dean of Academic Affairs; Associate Professor; B.A., Nankai University; M.Phil., Hong Kong Polytechnic University; M.S., Ph.D., Purdue University. *Rebel since 2001.*

**Baloglu, Seyhmus** - *Full Graduate Faculty*

Professor; B.S., Cukurova University; M.B.A., Hawaii Pacific University; Ph.D., Virginia Polytechnic Institute and State University. *Rebel since 1996.*

**Bergman, Christine** - *Full Graduate Faculty*

Professor; B.S., Loma Linda University; M.S., University of Arizona; Ph.D., Michigan State University. *Rebel since 2005.*

**Bernhard, Bo Jason** - *Full Graduate Faculty*

Associate Professor; Executive Director International Gaming Institute; B.A., Harvard University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2002.*

**Braunlich, Carl** - *Full Graduate Faculty*

Associate Professor; B.S., M.S., Cornell University; D.B.A., United States International University. *Rebel since 2006.*

**Busser, James A.** - *Full Graduate Faculty*

Associate Dean of Academic Affairs; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. *Rebel since 1987.*

**Chatfield, Hyun Kyung** - *Full Graduate Faculty*

Assistant Professor; B.S., M.B.A., Ph.D., University of Nevada, Las Vegas. *Rebel since 2008.*

**Christianson, David J.** - *Full Graduate Faculty*

Associate Professor; B.A., M.R.E., Brigham Young University; Ph.D., Texas A&M University. *Rebel since 1977.*

**Dalbor, Michael C.** - *Full Graduate Faculty*

Professor; B.S., Ph.D., Pennsylvania State University; M.B.A., Loyola College. *Rebel since 2000.*

**Eade, Vincent** - *Full Graduate Faculty*



Professor; B.A., M.A., Bonaventure. *Rebel since 1986.*

**Erdem, Mehmet** - *Full Graduate Faculty*

Associate Professor; B.S., M.S., Purdue University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2006.*

**Gatling, Anthony** - *Full Graduate Faculty*

Assistant Professor; B.A., Duquesne University; M.B.A., Wayne State University; D.B.A., Lawrence Technological University. *Rebel since 2012.*

**Green, Allison** - *Full Graduate Faculty*

Assistant Professor; B.A., Eastern Illinois University; M.H.R., University of Oklahoma; Ph.D., University of New Mexico. *Rebel since 2012.*

**Henthorne, Tony L.** - *Full Graduate Faculty*

Associate Dean; Professor; B.A., Ouachita Baptist University; M.B.A., University of Arkansas, Fayetteville; Ph.D., University of Mississippi. *Rebel since 1986.*

**Hertzman, Jean** - *Full Graduate Faculty*

Assistant Dean; Associate Professor; B.S., Cornell University; M.B.A., Tulane University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2006.*

**Jones, Thomas** - *Full Graduate Faculty*

Associate Professor; B.F.A., University of South Dakota; B.S., M.S., University of Nevada, Las Vegas; Ed.D., Arizona State University. *Rebel since 1990.*

**Kim, Yen-Soon** - *Full Graduate Faculty*

Associate Professor; B.S., M.S., Soonchunhyang University; Ph.D., Oklahoma State University. *Rebel since 2005.*

**Kim, Jungsun (Sunny)** - *Full Graduate Faculty*

Assistant Professor; B.A. Kyung Hee University; M.S., Ph.D., University of Nevada Las Vegas. *Rebel since 2012.*

**Kincaid, Clark S.** - *Full Graduate Faculty*

Associate Professor; B.A., Southern Utah State College, M.S., Ph.D., University of Nevada, Las Vegas. *Rebel since 2004.*

**Love, Curtis C.** - *Full Graduate Faculty*

Associate Professor; B.S., University of Southern Mississippi; M.A., Ph.D., University of Alabama. *Rebel since 1998.*

**Lucas, Anthony** - *Full Graduate Faculty*

Professor; B.S., Ball State University; M.B.A., Ph.D., University of Nevada, Las Vegas. *Rebel since 2001.*

**Mayer, Karl** - *Full Graduate Faculty*

Director of Dual Graduate Programs; Professor; B.S., University of Wisconsin-Madison; M.S., Columbia University; M.B.A. Harvard University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2001.*

**McLean, Daniel** - *Full Graduate Faculty*

Professor; B.A., Sacramento State College; M.A., Brigham Young University; Ph.D., Kansas State University. *Rebel since 2007.*

**Montgomery, Rhonda** - *Full Graduate Faculty*

Associate Professor; B.S., M.S., Purdue University; Ph.D., University of South Carolina. *Rebel since 1995.*

**Moreo, Pat** - *Full Graduate Faculty*

Associate Dean; Professor; B.S., University of Nevada, Las Vegas; M.P.S., Cornell University; Ed.D., University of Nevada, Las Vegas. *Rebel since 1983.*

**Raab, Carola** - *Full Graduate Faculty*

Associate Professor; B.S., M.B.A., Ph.D., University of Nevada, Las Vegas. *Rebel since 2003.*

**Repetti, Toni** - *Full Graduate Faculty*

Assistant Professor; B.S., University of Nevada, Las Vegas; M.B.A., Colorado State University; Ph.D., University of Nevada, Las Vegas. *Rebel since 2012.*

**Sammons, Gail** - *Full Graduate Faculty*

Director of Master of Hospitality Administration Program; Professor; B.S., North Dakota State University; M.S., University of Nevada, Las Vegas; Ph.D., Pennsylvania State University. *Rebel since 1996.*

**Stowe Shoemaker** - *Full Graduate Faculty*

Dean; Professor; B.S., University of Vermont; M.S., University of Massachusetts; Ph.D., Cornell University. *Rebel since 2012.*

**Singh, Ashok** - *Full Graduate Faculty*

Professor; B.S., M.S., Lucknow University; Ph.D., Purdue University. *Rebel since 1991.*

**Tanford, Sarah** - *Full Graduate Faculty*

Director of M.S. in Hotel Administration Program; Associate Professor; B.A., Northwestern University; M.S., Ph.D., University of Wisconsin-Madison. *Rebel since 2008.*

**Werner, William B.** - *Full Graduate Faculty*

Associate Professor; B.A., Ohio State University; J.D., University of Cincinnati. *Rebel since 2001.*

**Woods, Robert N.** - *Full Graduate Faculty*

Professor; B.S., University of Oklahoma; M.S., Ph.D., Cornell University. *Rebel since 2000.*

**Zemke, Dina Marie** - *Full Graduate Faculty*

Assistant Professor; B.S., Cornell University; M.B.A., University of Minnesota; Ph.D., University of Nevada, Las Vegas. *Rebel since 2012.*

## **Deans and Professors Emeriti**

**Abbey, James R.**

Emeritus Professor; B.A., M.B.A., Michigan State University; Ph.D., Utah State University. *UNLV Emeritus 1973-2000.*

**Borsenik, Frank D.**

Emeritus Professor; B.S., M.S., Ph.D., Michigan State University. *UNLV Emeritus 1975-1994.*

**Goodwin, John R.**

Emeritus Associate Professor; B.A., Michigan State University; M.A., Pepperdine University; D.B.A., United States International University. *UNLV Emeritus 1980-1993.*

**Gu, Zheng**

Emeritus Professor; B.S., Hangzhou University; M.S., Ph.D., University of Central Florida. *UNLV Emeritus 1991.*

**Holmes, David**

Emeritus Professor; B.S., M.S. Indiana State University; Ph.D., University of Utah. *UNLV Emeritus 1976.*

**Mann, Stuart H.**

Emeritus Dean of the William F. Harrah College of Hotel Administration; B.S., University of Illinois; M.S., Ph.D., Case Western Reserve University. *UNLV Emeritus 1998.*

**McCool, Audrey**

Emeritus Professor; B.S., M.A., University of Illinois, Urbana; Ed.D., Texas Tech University. *UNLV Emeritus 1990.*

**Metcalf, Lyell E.**

Emeritus Associate Professor; B.S., B.A., M.A., University of Arizona; C.P.A., California. *UNLV Emeritus 1970-1994.*

**Stefanelli, John**

Emeritus Professor; B.S., University of Illinois; M.B.A., Michigan State University; Ph.D., University of Denver. *UNLV Emeritus 1978.*

**Vallen, Jerome J.**

Emeritus Dean of the William F. Harrah College of Hotel Administration and Professor; B.S., Ph.D., Cornell University; M.Ed., St. Lawrence University. *UNLV Emeritus 1967-1998.*

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

### **Master of Science - Hotel Administration**

#### **Plan Description**

The 36-hour Master of Science – Hotel Administration degree program will prepare you for a successful career as an upper-level executive in the hospitality industry or as an instructor/researcher in a hospitality education program. You can choose from several tracks of study including food service management, hotel management, hospitality education, convention and meetings management, or casino and gaming management.

Students have the opportunity to conduct research on a subject that interests them by writing a thesis or a professional paper. This decision will be based upon the student's goals and consultation with an academic advisor. Copies of the completed thesis must meet the guidelines of the UNLV Graduate College and be completed according to published deadlines.

#### **Learning Outcomes**

[www.unlv.edu/degree/ms-hotel-administration](http://www.unlv.edu/degree/ms-hotel-administration)

#### **Plan Admission Requirements**

The student must satisfy the minimum admission requirements of the UNLV Graduate College and the William F. Harrah College of Hotel Administration, including:

- Submission of a completed online application form and required admission fee.
- Submission of two copies of official transcripts from all institutions attended after high school. One copy should be sent directly from the institution attended to the UNLV Graduate College and another one to the Harrah Hotel College Graduate Studies Office. Please note: it is a requirement of the UNLV Graduate College that students with class credits and/or degrees from educational institutions outside the United States must provide a course-by-course evaluation of those credentials by a Graduate College approved NACES Evaluation Agency. This is to obtain an evaluation of the courses, verification of degrees, and establish accreditation of the schools and/or universities. A copy of this evaluation should be sent to both the UNLV Graduate College and the Harrah Hotel Graduate Studies Office. Unofficial copies of transcripts may be uploaded with the online application form.
- A baccalaureate degree from an accredited institution with a minimum overall GPA of 2.75 on a 4.00 scale, or 3.00 in the last two years of study.

- A satisfactory composite score on the Graduate Record Examination (GRE) (department code 5199), minimum score 1150 or 50th percentile—with at least 35% on the verbal portion, or the Graduate Management Admissions Test (GMAT) (department code ZSC-37-21), minimum score 550 with at least 25% on the verbal portion. All scores must be sent directly from the testing center to the Harrah Hotel College Graduate Studies Office.
- A minimum of one year of full-time work experience in a management/supervisory capacity in the hospitality industry, or three years of full-time, front-line experience.
- A brief essay of approximately 500 words outlining the applicant's career goals and how the applicant's hospitality employment background has prepared him/her for graduate study.
- Two letters of recommendation, one from a current or former employer and one from a college faculty member able to evaluate the applicant's potential for success in a graduate program. If the applicant is no longer in touch with faculty members, letters from two employers will suffice.
- A current resume with employer references. The resume should clearly indicate job titles, places and dates of employment, and specific job responsibilities.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Items 6, 7, and 8 above can be submitted to the Harrah Hotel College Graduate Studies Office by email or mail. Recommendation letters must be mailed or emailed directly from the employer or professor, not forwarded by the applicant.

Application Deadline: Refer to The Graduate College website for specific deadlines.

### **Plan Requirements**

See Subplan Requirements below.

### **Subplan 1 Requirements: Thesis Track**

Total Credits Required: 36

### **Course Requirements**

- Required Courses – Credits: 24
  - HOA 703 - Human Resources Management in the Hospitality Industry
  - HOA 705 - Financial Analysis for the Service Industries
  - HOA 711 - Laws of Innkeeping and Food Service
  - HOA 730 - Statistical Analysis for Hospitality
  - HOA 731 - Operational Analysis in Hospitality Management
  - HOA 735 - Research Methodology
  - HOA 740 - Marketing Systems
  - HOA 777 - Critical Issues in Hospitality Management
- Management Elective Course – Credits: 3
  - Complete one of the following courses:
    - HOA 716 - Principles and Practices in Hotel Management
    - HOA 717 - Principles and Practices in Convention and Meetings Management
    - HOA 718 - Principles of Casino and Gaming Management
    - HOA 720 - Principles and Practices in Food Service Management
- Supporting Elective Course – Credits: 3
  - Complete three credits of advisor-approved elective coursework.
- Thesis – Credits: 6

- HOA 789 - Thesis

### **Degree Requirements**

- Successfully complete a minimum of 36 graduate-level credit hours, of which no less than 24 are in Hotel Administration. This allows for a variety of supplemental tracks including business and education. At least 27 credits must be at the 700-level.
- An oral examination is required of all candidates for the M.S. degree.
- Successfully complete supplemental courses as required by the academic advisor, if the student's undergraduate preparation is insufficient. Generally, no more than six credits of supplementary courses will be required.
- In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
- In addition to the academic requirements, the Harrah Hotel College requires 500 hours of acceptable employment experience in the hospitality industry. The work experience requirement requires the student to find employment, but carries no academic credit and may be earned outside Nevada and during the summer. This work experience will be evaluated qualitatively as well as quantitatively, and may be waived at the discretion of the program coordinator. International students must go to the Office of International Students and Scholars to verify employment eligibility.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
- The student must submit his/her approved, properly formatted hard-copy thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

### **Subplan 2 Requirements: Professional Paper Track**

Total Credits Required: 36

### **Course Requirements**

- Required Courses – Credits: 24
  - HOA 703 - Human Resources Management in the Hospitality Industry
  - HOA 705 - Financial Analysis for the Service Industries
  - HOA 711 - Laws of Innkeeping and Food Service
  - HOA 730 - Statistical Analysis for Hospitality
  - HOA 731 - Operational Analysis in Hospitality Management
  - HOA 735 - Research Methodology
  - HOA 740 - Marketing Systems
  - HOA 777 - Critical Issues in Hospitality Management
- Management Elective Course – Credits: 3
  - Complete one of the following courses:
    - HOA 716 - Principles and Practices in Hotel Management
    - HOA 717 - Principles and Practices in Convention and Meetings Management
    - HOA 718 - Principles of Casino and Gaming Management

- HOA 720 - Principles and Practices in Food Service Management
- Supporting Elective Courses – Credits: 6
  - Complete six credits of advisor-approved elective coursework.
- Professional Paper – Credits: 3
  - HOA 788 - Professional Paper

### **Degree Requirements**

- Successfully complete a minimum of 36 graduate-level credit hours, of which no less than 24 are in Hotel Administration. This allows for a variety of supplemental tracks including business and education. At least 27 credits must be at the 700-level.
- An oral examination is required of all candidates for the M.S. degree.
- Successfully complete supplemental courses as required by the academic advisor, if the student's undergraduate preparation is insufficient. Generally, no more than six credits of supplementary courses will be required.
- In addition to general academic requirements, the Harrah College of Hotel Administration requires 500 hours of acceptable employment in the hospitality industry. This work experience will be evaluated qualitatively as well as quantitatively. The work experience requirement may be met during the school year or in summers. International students must go to the Office of International Students and Scholars to verify employment eligibility. The work experience requirement requires the student to find a paid job but carries no academic credit and may be earned anywhere.

### **Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must successfully complete a professional paper.

### **Plan Graduation Requirements**

Refer to your subplan for Graduation Requirements.

- Subplan 1: Thesis Track
- Subplan 2: Professional Paper Track

## **Executive Master of Hospitality Administration**

### **Plan Description**

The Master's of Hospitality Administration (MHA) degree is a 30-credit program designed to bring hospitality executives together to learn the latest management and leadership techniques in an executive format, via the Internet and other media. Demand determines the class schedule for the program.

Courses are taught entirely online—there is no requirement that any student come to the main UNLV campus (although all students are encouraged to participate in the graduation exercises). Courses are offered throughout the year in five eight-week sessions. Two sessions are scheduled during the fall and spring semesters and one during the summer semester. At least two required courses and two elective courses are offered during each session. The professional paper class is offered during the regular 16-weeks of the Fall and Spring semesters and for an extended time during the Summer semester to afford students time to complete their projects. The professional paper should adhere to the American Psychological Association's current publication manual regarding writing style and format.

In addition to regular tuition and fees, this program has an additional fee of \$510 per credit to cover the cost of delivery in an executive format. For more information, contact the program coordinator at (702) 895-5430.

### **Learning Outcomes**

[www.unlv.edu/degree/mha-hospitality-administration](http://www.unlv.edu/degree/mha-hospitality-administration)

### **Plan Admission Requirements**

The student must satisfy the following admission requirements of the Graduate College and the William F. Harrah College of Hotel Administration.

- A baccalaureate degree from an accredited college or university with an overall undergraduate grade point average of at least 2.75 on a 4.00 scale, or 3.00 or higher in the last two years of study.
- A minimum of three years of full-time management experience in the hospitality industry.
- All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

**IMPORTANT NOTE FOR INTERNATIONAL STUDENTS:** Because this program is offered totally online and is available anywhere in the world, UNLV cannot issue an I-20 and you cannot obtain a student visa to come to the United States based upon enrollment in the Master's of Hospitality Administration Program.

The following information to be submitted electronically to the Graduate College with your application:

- Completed online application found in the upper right-hand column of the Graduate College home page.
- Unofficial transcripts for all post-secondary schools attended.
- Payment of application fees.
- A brief essay of approximately 500 words outlining your career goals and how your hospitality employment background has prepared you for graduate study.
- Résumé with employer references. The resume should clearly indicate job titles, place and date of employment and specific job responsibilities.
- Two letters of recommendation: You may upload contact information (name, address, phone, email) for a current or former employer and a college faculty member able to evaluate your potential for success in a graduate program (two recommendations required). If you are no longer in touch with faculty members, two letters from employers will suffice. Your contacts will be sent an email with information on how to complete the online recommendation or where to mail a submission.
- NOTE: Instead of the above, you may skip this section on the application and have your recommenders email their letters directly to [gael.hancock@unlv.edu](mailto:gael.hancock@unlv.edu).

The following information to be submitted directly to the Harrah Hotel College Graduate Studies Office and the Graduate College:

- In addition to the electronic transcript(s) submitted to the Graduate College with your application, official copies of your transcripts must be mailed directly from the educational institution(s) to both the Graduate College and the Harrah Hotel College Graduate Studies Office.
- Evaluation of Foreign Credentials (see #4 above)

Notes: Students are not required to take the GRE or the GMAT for entry into this program.

We will accept email submissions of the essay, resume and recommendation letters. However, recommendation letters must be emailed directly from the professor or employer, not forwarded by the prospective student.

### *Application Deadlines*

Refer to the Graduate College website for specific deadlines.

All required documentation and application materials must be received by the UNLV Graduate College and the Harrah Hotel College Graduate Studies Office by the listed deadline for the application to be considered.

### **Plan Requirements**

Total Credits Required: 30

### **Course Requirements**

- Required Courses – Credits: 15
  - MHA 603 - Human Resources and Behavior in the Hospitality Industry
  - MHA 605 - Financial Analysis for the Service Industries
  - MHA 640 - Marketing Systems
  - MHA 635 - Research Methodology
  - MHA 651 - Hospitality Service Management
- Elective Courses – Credits: 12
  - Complete four additional MHA courses:
    - MHA 538 - Fundamentals of Casino Operations
    - MHA 604 - Hospitality Organizational Behavior Issues
    - MHA 606 - Hospitality Revenue Management
    - MHA 607 - Hospitality Industry Cost Control
    - MHA 611 - Laws of Innkeeping and Food Service
    - MHA 616 - Principles and Practices in Hospitality Management
    - MHA 617 - Principles and Practices in Convention and Meetings Management
    - MHA 618 - Principles of Casino and Gaming Management
    - MHA 620 - Principles and Practices in Food Service Management
    - MHA 625 - Information Technology in the Hospitality Industry
    - MHA 626 - Sustainability in the Hospitality Industry
    - MHA 631 - Operational Analysis in Hospitality Management
    - MHA 638\* - Database Marketing for Hospitality and Tourism
    - MHA 641 - Dynamics of Tourism
    - MHA 642 - Customer Development Strategies for Casino & Gaming
    - MHA 644 - Online Training and Development
    - MHA 645 - Human Dynamics and Organizational Leadership
    - MHA 646 - Essentials of Negotiation in the Hospitality Industry
    - MHA 647 - Intercultural Communication in the Hospitality Industry
    - MHA 653 - Event Management
    - MHA 654 - Risk Management: Safety and Security in Hospitality and Tourism
    - MHA 660 - Research Seminar in Hotel Administration
    - MHA 661 - Research Seminar in Food Service Administration
    - MHA 662 - Seminar in Hospitality Education
    - MHA 663 - Research Seminar in Casino and Gaming Management
    - MHA 675 - Seminar in Hospitality Finance
    - MHA 681 - Independent Study and Research
    - MHA 690 - Special Topics in Hospitality Management
- Culminating Experience – Credits: 3
  - Complete either a professional paper or hospitality entrepreneurship.
    - MHA 787 - Entrepreneurship in the Hospitality Industry



- MHA 788 - Professional Paper

### **Degree Requirements**

- Students must successfully complete 30 credit hours of 500-/600-level course work in the MHA program in the William F. Harrah College of Hotel Administration. These credits will come from four elective courses, five required courses and a professional paper.
- Students may take courses in any order with three exceptions: six or more credit hours must be completed before MHA 635 – Research Methods can be taken; MHA 635 – Research Methodology must be taken prior to the culminating experience, and it is recommended that the culminating experience be taken in the last semester of study. Students can schedule their individual programs with the MHA academic advisor.

### **Plan Graduation Requirements**

- The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
- The student must successfully complete a culminating experience.

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

### **HOA 501 - Hotel Law**

#### **Credits 3**

Legal aspects of the owner/customer relationship with particular attention to personal and property liability in the hospitality industry. **Formerly:** HOA 601. **Same as:** HMD 401. **Notes:** Credit at the 500 level normally requires additional work.

### **HOA 502 - Employment Law in the Hospitality Industry**

#### **Credits 3**

Covers all significant state and federal laws applicable to employment relationships found in hospitality businesses and studies effective methods of managing hospitality employees in compliance with applicable employment laws. Students learn to effectively identify, evaluate and resolve employment law issues and liabilities commonly encountered by hospitality businesses. **Formerly:** HOA 602. **Same as:** HMD 402. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 507 - Organizational Theory Applied to the Service Industries**

#### **Credits 3**

Focuses on developing management skills through the study and application of theories of human behavior, particularly in service organizations. Areas addressed include: working with/through others, communication, coaching and counseling, providing feedback, goal setting, stress management, creative problem solving, motivation, power, conflict management, and group dynamics and developing effective teams. **Formerly:** HOA 607. **Same as:** HMD 407. **Notes:** Credit at the 500 level normally requires additional work.

### **HOA 508 - Labor Management Relations**

#### **Credits 3**

Analysis of labor-management relations in the hospitality industry at the employee, unit, and strategic levels. Development of written and verbal communication and problem identification/ solving skills via environmental analysis (historical, legal, social and technological). Other areas include: contract negotiation and administration, union-management cooperative efforts, and strategic labor management decision-making. **Formerly:** HOA 608. **Same as:** HMD 408. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 509 - Hospitality Security/Risk**

#### **Credits 3**

Analysis of contemporary risk management and security concerns specific to hospitality and gaming industries; encompassing lodging, food and beverage, casinos, events, and clubs. Includes development of security and risk

management strategies for asset protection, loss prevention, disaster control, crisis management, industrial safety, casino security, and emergency action planning. **Formerly:** HOA 510. **Same as:** HMD 410. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 521 - Market and Feasibility Studies**

#### **Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 621. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 522 - Staff Planning and Operational Analyses**

#### **Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 622. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 525 - Computer Application to the Hospitality**

#### **Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 625. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 526 - Accounting for the Casino Hotel**

#### **Credits 3**

Detailed examination of accounting systems, procedure, and controls peculiar to casinos required by both management and government for internal auditing, financial reporting, and governmental control. **Formerly:** HOA 626. **Same as:** GAM 426

### **HOA 536 - Mathematics of Casino Games**

#### **Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 636. **Notes:** Credit at the 500-level normally requires additional work.

### **HOA 537 - Gaming Regulations and Control**

#### **Credits 3**

Nevada's system of gaming regulation and control provides a model for studying the history, purpose, politics, methods, and limitations — both practical and legal — of governmental regulation and control of legal gambling. **Formerly:** HOA 637. **Same as:** GAM 437. **Notes:** Credit at the 500 level normally requires additional work.

### **HOA 540 - Casino Marketing**

#### **Credits 3**

Marketing concepts as applied to the gaming industry. **Formerly:** HOA 640. **Same as:** GAM 440. **Notes:** Credit at the 500 level normally requires additional work.

### **HOA 542 - Sociology of Gambling**

#### **Credits 3**

Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. **Formerly:** HOA 642. **Same as:** GAM 442, SOC 442, SOC 642. **Notes:** Credit at the 500 and 600 level normally requires additional work.

### **HOA 549 - International Tourism**

#### **Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 649. **Notes:** Credit at the 500-level normally requires additional work.

**HOA 553 - Management of Hospitality Service Delivery System****Credits 3**

Evaluation, design, and management of service delivery systems through operations management topics from a service perspective. Included are other related topics such as customer satisfaction and managing organizational change. **Formerly:** HOA 653. **Same as:** HMD 453. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 555 - Hotel Administration Seminar****Credits 3**

Study and discussion of current problems in the hospitality industry using case studies, individual research, and guests. **Formerly:** HOA 655. **Same as:** HMD 455. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 556 - Employee Development****Credits 3**

Stresses the techniques in planning, developing, and conducting training programs in food service and lodging firms. **Formerly:** HOA 656. **Same as:** HMD 456. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 560 - Facilities Planning and Equipment****Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 660. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 570 - Quantitative Methods and Applications in Casino Gaming****Credits 3**

Develops the techniques and methods for computing the probabilities, expected values, and house percentages of casino games and analyzes the effects of changes in playing rules and payoff odds. **Formerly:** HOA 670. **Same as:** GAM 470. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 571 - Practicum in Hotel Education****Credits 3**

Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. **Formerly:** HOA 671. **Notes:** Credit at the 500 level normally requires additional work.

**HOA 574 - Seminar in Hotel Research****Credits 3**

For descriptions of 500-level courses, please consult the current Undergraduate Catalog where they are listed as 400-level courses. **Formerly:** HOA 674. **Notes:** Credit at the 500 level usually requires additional work.

**HOA 587 - Association Management****Credits 3**

**Formerly:** HOA 687

**HOA 703 - Human Resources Management in the Hospitality Industry****Credits 3**

Examines the functions of human resource management through readings, cases and applied research with special attention to strategic HR alliances and developing trends.

**HOA 705 - Financial Analysis for the Service Industries****Credits 3**

Problems and cases in applying accounting and financial information to executive decision making in the hospitality industry. **Prerequisites:** Adequate preparation in accounting.

**HOA 711 - Laws of Innkeeping and Food Service**

**Credits 3**

Examines through case studies and discussion the modern application of the laws of innkeeping using a historical perspective.

**HOA 716 - Principles and Practices in Hotel Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of hotel/motel companies.

Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of public and private operations.

**HOA 717 - Principles and Practices in Convention and Meetings Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of convention and meeting industries.

Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of convention and meetings management issues.

**HOA 718 - Principles of Casino and Gaming Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of casino companies. Comparisons, case studies and selected topics focus on organization and department policies, production processes, manpower development, scheduling, and marketing for a variety of operating systems. **Prerequisites:** Consent of instructor.

**HOA 720 - Principles and Practices in Food Service Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of food service companies.

Comparisons, case studies, and selected topics focus on equity structures, operations, multiunits, marketing, and systems for a variety of public and private operations. **Prerequisites:** HOA 461 or equivalent.

**HOA 721 - Issues in Women's Nutrition****Credits 3**

Advanced discussion of how nutrition affects the physical and mental health of women throughout the life cycle and how to evaluate the validity of nutrition research as it relates to the needs of women rather than the general population.

**HOA 725 - Information Technology in the Hospitality Industry****Credits 3**

Examines the current level of technology use, explores the potential uses of existing technology, and discusses new technologies in the hospitality industry. **Prerequisites:** Consent of instructor.

**HOA 730 - Statistical Analysis for Hospitality****Credits 3**

Introduction to the use of statistical techniques with emphasis on applications for the hospitality industry.

**HOA 731 - Operational Analysis in Hospitality Management****Credits 3**

Research design, operations analysis, and the application of analytical models for the hotel and food service industry. **Formerly:** (HOA 701). **Prerequisites:** HOA 730

**HOA 732 - Advanced Statistics in R for Hospitality and Business****Credits 3**

Advanced statistical methods for analyzing time series data, including seasonal and non-seasonal ARIMA modeling. Statistical analysis of panel data (aka longitudinal or cross-sectional time-series data), which is a time series data for several entities, will also be covered. The statistical programming language R will be used in this class.

**Prerequisites:** HOA 730 or equivalent.

**HOA 735 - Research Methodology**

**Credits 3**

Examination of research methods including: the scientific method, literature review, sampling, statistics, research design, and analytical technique. **Notes:** If you are following the thesis option, you must take 3 credits of HOA 799 in conjunction with this class. **Prerequisites:** Graduate standing.

**HOA 738 - Database Marketing for Hospitality and Tourism****Credits 3**

Provides students with a working knowledge of database marketing in the hospitality and tourism industries. Database marketing is an information-driven process of compiling detailed information about customers, leads, and prospects and using that information to segment and target individual customers with appropriate sales-oriented materials.

**HOA 739 - Psychology of Hospitality Marketing****Credits 3**

Research in neurology, biology, and cognitive science is changing the way researchers approach how people think and behave. This class introduces students to new ways of viewing cognition and to help graduate students apply these new views as they develop their own research programs.

**HOA 740 - Marketing Systems****Credits 3**

Development of marketing and advertising systems for hospitality industries based on both the need to create new markets and the need to respond to significant shifts in social and economic patterns.

**HOA 741 - Dynamics of Tourism****Credits 3**

Examines major components of international and domestic tourism systems, including socio-economic effects. Legal and environmental problems, and managerial and planning functions.

**HOA 742 - Customer Development Strategies for the Casino and Gaming Industry****Credits 3**

Analyzing marketing and promotional strategies utilized by the casino industry and developing understanding of valuate techniques that facilitate managerial decision making concerning these strategies. **Prerequisites:** HOA 718 or consent of instructor.

**HOA 743 - Professional Training Applications****Credits 3**

Prepares students to plan, create, and conduct management and employee development programs. Process of learning essentials of training and presentation skill and management concepts. **Notes:** Students work with industry professionals.

**HOA 744 - Online Training and Development****Credits 3**

Concepts, principles, and techniques of online training. Emphasizes transfer of knowledge acquisition via online learning. Development of online training programs.

**HOA 745 - Human Dynamics and Organizational Leadership****Credits 3**

Provides students with knowledge, skills and attitudes necessary to undertake leadership responsibilities in complex organizations. Applies concepts and methodologies from social and behavioral sciences in the analysis of leadership behavior in diverse organizational and community settings. **Same as:** (EDA 745 and BUS 745)

**HOA 751 - Hospitality Service Management****Credits 3**

Examines service marketing and management concepts relevant to the hospitality industry and explores how these concepts can be applied to service delivery systems in the hospitality industry.

**HOA 756 - Culinary Arts Instruction****Credits 1**

Practical methods for improving culinary curriculum and instruction. Methods of instruction for culinary theory, cooking methods, mise en place, food service sanitation, menu development, culinary math, and food and beverage trends.

**HOA 757 - Restaurant Management Instruction****Credits 1**

Practical methods for introducing restaurant management skills into the curriculum. Methods for instruction of food service purchasing and purchasing formulas, dining room service techniques, managing service, suggestive selling, advanced culinary techniques, and revenue management. **Prerequisites:** HOA 756

**HOA 758 - Advanced Culinary Instructional Techniques****Credits 1**

Methods for introducing advanced culinary techniques into the curriculum. Methods for instruction of baking pastries and cakes, use of baking equipment, basic garde manger and food presentation skills. **Prerequisites:** HOA 757

**HOA 759 - Advanced Food Service Management Instruction****Credits 1**

Practical methods for introducing advanced food service management into the curriculum. Capstone course for the food service management instructional series. Organization, design, and management of the different styles of restaurant operations. **Prerequisites:** HOA 758

**HOA 760 - Research Seminar in Hotel Administration****Credits 3**

Student solutions to situation incidents and case studies in the lodging segment of the hospitality industry. Alternate semesters treat different topics. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration.

**HOA 761 - Research Seminar in Food Service Administration****Credits 3**

Student solutions to incidents and case studies in the food segment of the hospitality industry. Alternate semesters treat different topics. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration.

**HOA 763 - Research Seminar In Casino and Gaming Management****Credits 3**

Student solutions to situations, incidents and case studies in the casino segment of the hospitality industry. Alternate semesters treat different topics. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration including HOA 718.

**HOA 764 - Research Seminar in Convention Management****Credits 3**

Designed around student solutions to situations, incidents, and case studies in convention, meeting, and exhibition management. Comprehensive and application of research to practical and theoretical issues in convention management will be emphasized. Alternate semesters treat different topics. **Prerequisites:** Six graduate credits in hotel administration.

**HOA 775 - Seminar in Hospitality Finance****Credits 3**

Analysis and application of financial theories to hospitality firms and industry. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** HOA 705, FIN 701 or equivalent.

**HOA 777 - Critical Issues in Hospitality Management****Credits 3**

Provides the opportunity to identify, explore, discuss, and analyze current critical issues and events important to the hospitality industry. Students communicate in research and writing the essence of a critical issue and prepare a verbal presentation to communicate a critical issue. **Notes:** May be repeated to a maximum of six credits.

#### **HOA 781 - Independent Study and Research**

##### **Credits 1 – 3**

Consultation course consisting of individual student effort under guidance of the instructor. Students assigned to or request assignment to specific problems in hospitality management on the basis of interest and preparation. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Consent of instructor and graduate program director.

#### **HOA 782 - Advanced Independent Study and Research**

##### **Credits 3**

Consultation course consisting of individual student effort under guidance of the instructor. Students conduct independent research in their major area or work on the analysis of a problem for a hospitality organization.

**Prerequisites:** Doctoral student.

#### **HOA 783 – Internship**

##### **Credits 1 – 3**

Field experience in a variety of hospitality related industries that focus on management or application of specific skills within a discipline. Must be consistent with the student's area of specialization and conducted under the guidance of a graduate faculty member. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Consent of instructor and graduate program director.

#### **HOA 787 - Entrepreneurship in the Hospitality Industry**

##### **Credits 3**

Comprehensive coverage of various tools, documents, and subject materials utilized to start and maintain a small hospitality business. Includes entrepreneurial perspectives, challenges, characteristics, self-assessment; starting a new venture; developing business idea and business/marketing/financial organizational plans; and financing and managing the new venture. Other issues include legal, franchising, and international entrepreneurship.

**Prerequisites:** HOA 703, HOA 740 or MBA 767, HOA 705 or MBA 765.

#### **HOA 788 - Professional Paper**

##### **Credits 3**

Professional paper whose contents serve as the focus for the final oral examination. **Formerly:** HOA 791. **Notes:** May be enlarged in scope and purpose for thesis credit. 3 credits.

#### **HOA 789 – Thesis**

##### **Credits 3 – 6**

Students may enroll in 3 credits per semester. **Formerly:** HOA 799. **Notes:** A total of six credits are required for the thesis. **Grading:** S/F grading only. **Prerequisites:** HOA 735

#### **HOA 790 - Special Topics in Hospitality Management**

##### **Credits 1 – 6**

Eclectic approach to special problem areas of current interest employing individual and group research. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration.

#### **HOA 794 - Issues and Trends for Hospitality Educators**

##### **Credits 1**

Explores issues and trends in hospitality education. **Formerly:** HOA 779. **Notes:** May be repeated to a maximum of three credits. **Prerequisites:** Doctoral student.

#### **HOA 795 - Research Seminar in Hospitality Education**

##### **Credits 3**

Exploration of problems related to programs and techniques of teaching in food service and lodging education, with emphasis upon the means of improving curriculum and instruction. **Formerly:** HOA 762. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration.

**HOA 796 - Advanced Research Methodology****Credits 3**

Exploration of problems related to programs and techniques of teaching in food service and lodging education, with emphasis upon the means of improving curriculum and instruction. **Formerly:** HOA 762. **Notes:** May be repeated once with consent of advisor and instructor. **Prerequisites:** Six graduate credits in hotel administration.

**HOA 797 - Philosophy of Science in Hospitality Research****Credits 3**

Exploration of the philosophical and sociological context of research, including different epistemologies, ontologies, and images of human nature and their influence on conceptualizing and designing research, collecting and understanding data, and disseminating findings. Implications and consequences of alternative approaches and perspectives of inquiry examined. **Formerly:** HOA 737

**HOA 798 - Readings in Hospitality Management****Credits 3**

Exploration of the philosophical and sociological context of research, including different epistemologies, ontologies, and images of human nature and their influence on conceptualizing and designing research, collecting and understanding data, and disseminating findings. Implications and consequences of alternative approaches and perspectives of inquiry examined. **Formerly:** HOA 737

**HOA 799 – Dissertation****Credits 3 – 12**

Dissertation Research. **Formerly:** HOA 798. **Notes:** 3-12 credits in three-credit increments. **Grading:** S/F grading only. **Prerequisites:** Graduate standing in Ph.D. program and consent of advisor.

**MHA 538 - Fundamentals of Casino Operations****Credits 3**

Provides students with basic casino table games and slot department management operational procedures. It shows the relationship between these departments and other hotel/casino departments. By the end of this course, students will understand state of the art casino operations management methods.

**MHA 603 - Human Resources and Behavior in the Hospitality Industry****Credits 3**

Examines the functions of human resource management through readings, cases and applied research with special attention to strategic HR alliances and developing trends. **Formerly:** MHA 703

**MHA 604 - Hospitality Organizational Behavior Issues****Credits 3**

This course focuses on developing management skills through the study and application of theories of human behavior, particularly in service organizations. Areas addressed include: working with/through others, communication, coaching and counseling, providing feedback, goal setting, stress management, creative problem solving, motivation, power, conflict management, group dynamics and developing effective teams.

**MHA 605 - Financial Analysis for the Service Industries****Credits 3**

Problems and cases in applying accounting and financial information to executive decision making in the hospitality industry. **Formerly:** MHA 705

**MHA 606 - Hospitality Revenue Management****Credits 3**

This course deals with the theory and practice of operational and strategic revenue management policy and problems in the hospitality industry. It briefly examines the critical areas of yield management and revenue maximization in the context of hospitality and tourism industry. Emphasis is placed upon current issues in revenue management systems. **Formerly:** MHA 706



**MHA 607 - Hospitality Industry Cost Control****Credits 3**

Course examines: types and nature of costs in hotels and restaurants, the role of cost control in gaining competitive advantage, the application of food and beverage cost control methods, cost forecasting approaches, Cost Volume Profit analyses, Activity Based Cost, and an introduction to energy and utility cost control.

**MHA 611 - Laws of Innkeeping and Food Service****Credits 3**

Examines through case studies and discussion the modern application of the laws of innkeeping using a historical perspective. **Formerly:** MHA 711

**MHA 616 - Principles and Practices in Hospitality Management****Credits 3**

Examination of the management techniques employed in hospitality companies. Comparisons, case studies, and selected topics focus on management systems for a variety of public and private operations. **Formerly:** MHA 716

**MHA 617 - Principles and Practices in Convention and Meetings Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of convention and meeting industries. Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of convention and meetings management issues. **Formerly:** MHA 717

**MHA 618 - Principles of Casino and Gaming Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of casino companies. Comparisons, case studies and selected topics focus on organization and department policies, production processes, manpower development, scheduling, and marketing for a variety of operating systems. **Formerly:** MHA 718

**MHA 620 - Principles and Practices in Food Service Management****Credits 3**

Examination of the mechanisms and techniques employed in the management of food service companies. Comparisons, case studies, and selected topics focus on equity structures, operations, multiunits, marketing, and systems for a variety of public and private operations. **Formerly:** MHA 720

**MHA 625 - Information Technology in the Hospitality Industry****Credits 3**

Examines the current level of technology use, explores the potential uses of existing technology, and discusses new technologies in the hospitality industry. **Formerly:** MHA 725

**MHA 626 - Sustainability in the Hospitality Industry****Credits 3**

An examination of sustainability practices in hotels, restaurants, and other hospitality facilities. Topics covered include material use, waste reduction, and recycling; water conservation; energy management; site selection and green building design, and indoor environmental quality issues. A special emphasis is placed on certifications and certifying organizations. **Formerly:** MHA 726

**MHA 630 - Statistical Analysis for Hospitality****Credits 3**

Introduction to the use of statistical techniques with emphasis on applications for the hospitality industry.

**MHA 631 - Operational Analysis in Hospitality Management****Credits 3**

Research design, operations analysis, and the application of analytical models for the hotel and food service industry. **Formerly:** MHA 601, MHA 731

**MHA 635 – Research Methodology**

**Credits 3**

Examination of research methods including the scientific method, literature review, sampling, statistics, research design and analytical technique. **Formerly:** MHA 735. **Prerequisites:** Six or more credits in the MHA program.

**MHA 638\* - Database Marketing for Hospitality and Tourism****Credits 3**

Provides students with a working knowledge of database marketing in the hospitality and tourism industries. Database marketing is an information-driven process of compiling detailed information about customers, leads, and prospects and using that information to segment and target individual customers with appropriate sales-oriented materials.

**MHA 640 - Marketing Systems****Credits 3**

Development of marketing and advertising systems for hospitality industries based on both the need to create new markets and the need to respond to significant shifts in social and economic patterns. **Formerly:** MHA 740

**MHA 641 - Dynamics of Tourism****Credits 3**

Examines major components of international and domestic tourism systems, including socio-economic effects. Legal and environmental problems, and managerial and planning functions. **Formerly:** MHA 741

**MHA 642 - Customer Development Strategies for Casino & Gaming****Credits 3**

Analyzing marketing and promotional strategies utilized by the casino industry and developing understanding of valuative techniques that facilitate managerial decision making concerning these strategies. **Formerly:** MHA 742

**MHA 644 - Online Training and Development****Credits 3**

Concepts, principles, and techniques of online training. Emphasizes transfer of knowledge acquisition via online learning. Development of online training programs. **Formerly:** MHA 744

**MHA 645 - Human Dynamics and Organizational Leadership****Credits 3**

Provides students with knowledge, skills and attitudes necessary to undertake leadership responsibilities in complex organizations. Applies concepts and methodologies from social and behavioral sciences in the analysis of leadership behavior in diverse organizational and community settings. **Formerly:** MHA 745

**MHA 646 - Essentials of Negotiation in the Hospitality Industry****Credits 3**

This course explores the major concepts and theories of the psychology of bargaining and negotiation, and the dynamics of interpersonal and inter-group conflict and its resolution. Course concepts will be applied to situations within the hospitality industry. **Formerly:** MHA 746

**MHA 647 - Intercultural Communication in the Hospitality Industry****Credits 3**

Explores communication, culture, and social dynamics internal and external to hospitality organizations within an international context. **Formerly:** MHA 747

**MHA 651 - Hospitality Service Management****Credits 3**

Examines service marketing and management concepts relevant to the hospitality industry and explores how these concepts can be applied to service delivery systems in the hospitality industry. **Formerly:** MHA 751

**MHA 653 – Event Management****Credits 3**

This course offers an analysis of the fundamental issues that arise in managing meetings, conferences, and conventions, and the skills, tools, and resources necessary for site selection, program planning and management, exhibits, selection and use of facility, volunteers, and budget management. **Formerly:** MHA 753

#### **MHA 654 - Risk Management: Safety and Security in Hospitality and Tourism**

##### **Credits 3**

Natural disasters, terrorism, fire, boycotts, lawsuits and transportation or utility interruptions can have negative effects on hospitality and tourism. This course addresses preparing for, managing, and recovering from major and minor realized risks. Managing risk using risk management teams, contingency plans, contract language, and insurance will be discussed. **Formerly:** MHA 754

#### **MHA 655 - Meeting and Convention Management**

##### **Credits 3**

**Formerly:** MHA 755

#### **MHA 660 - Research Seminar in Hotel Administration**

##### **Credits 3**

Student solutions to situation incidents and case studies in the lodging segment of the hospitality industry. Alternate semesters treat different topics. **Formerly:** MHA 760

#### **MHA 661 - Research Seminar in Food Service Administration**

##### **Credits 3**

Student solutions to incidents and case studies in the food segment of the hospitality industry. Alternate semesters treat different topics. **Formerly:** MHA 761

#### **MHA 662 - Seminar in Hospitality Education**

##### **Credits 3**

This course covers: overview of the history, organization, and administration of higher education and hospitality management programs, differences between types of degree programs and sources of funding, improving curriculum and instruction for both classroom and distance learning. The course will also investigate the role of faculty members in non-instructional activities.

#### **MHA 663 - Research Seminar in Casino and Gaming Management**

##### **Credits 3**

Student solutions to situations, incidents and case studies in the casino segment of the hospitality industry. Alternate semesters treat different topics. **Formerly:** MHA 763

#### **MHA 675 - Seminar in Hospitality Finance**

##### **Credits 3**

Analysis and application of financial theories to hospitality firms and industry. **Formerly:** MHA 775

#### **MHA 681 - Independent Study and Research**

##### **Credits 1-3**

Consultation course consisting of individual student effort under guidance of the instructor. Students assigned to or request assignment to specific problems in hospitality management on the basis of interest and preparation.

**Formerly:** MHA 781

#### **MHA 690 - Special Topics in Hospitality Management**

##### **Credits 3**

Eclectic approach to special problem areas of current interest employing individual and group research. **Formerly:** MHA 790. **Notes:** May be repeated multiple times.

#### **MHA 787 - Entrepreneurship in the Hospitality Industry**

##### **Credits 3**

Comprehensive coverage of various tools, documents, and subject materials utilized to start and maintain a small hospitality business. Includes entrepreneurial perspectives, challenges, characteristics, self-assessment; starting a new venture; developing business idea and business/marketing/financial organizational plans; and financing and

managing the new venture. Other issues include legal, franchising, and international entrepreneurship.

**Prerequisites:** MHA 603, MHA 605, MHA 651, MHA 640.

### **MHA 788 - Professional Paper**

#### **Credits 3**

Professional paper whose contents serve as a capstone research experience based on a current hospitality topic or problem in the industry. The outcome of this final requirement for the degree is a publishable paper. **Formerly:**

MHA 691, MHA 791, MHA 688. **Prerequisites:** MHA 635

### **SLS 550 - Administration of Recreation and Leisure Services**

#### **Credits 3**

Comprehensive examination of the philosophical, legal, financial, and administrative foundations necessary for management personnel in a public, not-for-profit or commercial leisure service organization. **Formerly:** SLS 650

### **SLS 700 - Special Problems in Sport and Leisure**

#### **Credits 3**

Specialized instruction and/or research designed to develop depth in understanding a current problem in sport and leisure. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Consent of instructor.

### **SLS 701 - Independent Study**

#### **Credits 1 – 3**

Independent study of a selected topic in sport or leisure service management or leisure behavior. **Notes:** May be repeated to a maximum of six credits. **Prerequisites:** Consent of instructor.

### **SLS 702 - Management in Sport and Leisure Service Organizations**

#### **Credits 3**

Utilizes management theory in conjunction with theory of sport and leisure behavior to develop a philosophy of administration applicable to sport and leisure service organizations.

### **SLS 703 - Management Analysis of Sport and Leisure Service Organizations**

#### **Credits 3**

Analysis of how the financial resources needed to operate sport and leisure service facilities and programs are acquired and marshaled to realize organizational goals. Marketing strategies and revenue source specific to sport and leisure services analyzed and discussed. **Prerequisites:** SLS 702

### **SLS 704 - Management Internship**

#### **Credits 3**

Structured management internship in a sport or leisure service organization which focuses on specific administrative functions under the supervision of an agency manager and a university advisor. **Prerequisites:** SLS 703 and approval of student's advisor.

### **SLS 716 - Social Psychology of Sport and Leisure**

#### **Credits 3**

Introduces and examines the theories of sport and leisure behavior from a social psychological perspective. Issues and outcomes of involvement in sport and leisure activities for the individual as well as organized groups.

### **SLS 717 - Law and Liability in Sport and Leisure Services**

#### **Credits 3**

Explores the legal principles and rules of law affecting the administration of recreation, sports and athletic programs. Emphasis on risk management theory, safety principles, insurance concepts and liability issues. Litigation trends identified and procedures outlined to minimize legal risks.

### **SLS 718 - Programming for Sport and Leisure Service Organizations**

#### **Credits 3**

Theoretical and conceptual aspects of comprehensive programming for sport and leisure service organizations. Includes program development theories, program design concepts, advertising, promotion and evaluation procedures.

**SLS 748 - Professional Paper**

**Credits 3**

Under the direction of a faculty advisor, the student develops a written treatise detailing the application of a principle or theory to the solution of a current problem of professional practice in the management of sport and leisure service. **Grading:** S/F grading only. **Prerequisites:** Consent of instructor.

**SLS 749 – Thesis**

**Credits 3**

Under the direction of a faculty advisor, students develop a written treatise detailing their methodical investigation and exposition of a theory or principle related to the management of sport and leisure service. **Notes:** May be repeated to a maximum of six credits. **Grading:** S/F grading only. **Prerequisites:** Consent of instructor.

