HEALTH, PHYSICAL EDUCATION AND RECREATION

Degree Programs Offered

- Health, Physical Education and Recreation, MA (http://catalog.unomaha.edu/graduate/degree-programs-certificates-minors/health-physical-education-recreation/health-physical-education-recreation-ma)
- Health, Physical Education and Recreation, MS (http://catalog.unomaha.edu/graduate/degree-programs-certificates-minors/health-physical-education-recreation/health-physical-education-recreation-ms)

HED 8050 APPLIED RESEARCH IN PUBLIC HEALTH (3 credits)
This course will assist candidates to develop the basic skills to conduct applied research to address contemporary problems in public health. The course will emphasize proposal writing, data collection, research design, statistical analysis, computer application, and writing of research reports.
Prerequisite(s)/Corequisite(s): Graduate standing. Not open to non-degree graduate students.

HED 8080 TOPICS IN HEALTH EDUCATION (3 credits)
This course will explore important current issues in Health Education. Candidates will explore economic, political, ethical and technological developments that affect the practice of Health Education. There is no limit to the number of times a candidate may enroll in HED 8080 as long as a different topic is offered each time.
Prerequisite(s)/Corequisite(s): Graduate.

HED 8250 HUMAN SEXUALITY (3 credits)
This graduate-level course is aimed at providing an overview of the current scientific knowledge concerning human sexuality. The course is designed to be interdisciplinary in nature, providing the biological, behavioral and cultural aspects of human sexuality. Priority will be given to candidates from the helping professions. Qualified candidates from other related disciplines must have permission of instructor.
Prerequisite(s)/Corequisite(s): Undergraduate Anatomy and Physiology

HED 8270 INTERVENTIONS IN HEALTH EDUCATION (3 credits)
This course will provide health behavior candidates with an opportunity to investigate, contrast, develop, implement and evaluate a variety of intervention activities, to be applied in different settings. Theories regarding methods to enhance behavior change and teaching strategies to meet the health needs of a diverse population will be explored.
Prerequisite(s)/Corequisite(s): Graduate status.

HED 8330 ALCOHOL EDUCATION (3 credits)
A study of the problems associated with alcohol use, misuse and abuse. The patterns and trends of use, theories of dependence, pharmacological aspects and health consequences are explored. Emphasis is given to the identification of people with alcohol related problems and the role of the private and public sectors in prevention, education, intervention, and referral. Methods of assessing needs, prescribing, implementing, and evaluating alcohol education programs will be explored.

HED 8360 COMMUNITY HEALTH (3 credits)
An in-depth examination of community health and determinants of community health issues. The epidemiology, statistical sciences, environmental health, political influences on health, and behavioral social sciences for community health are examined. Students are expected to be able to apply concepts addressed in class to contemporary health issues.

HED 8400 HEALTH PROMOTION PROGRAM PLANNING (3 credits)
An in-depth application of the health promotion program planning process utilizing a choice of planning models. Students develop a comprehensive plan in response to an actual grant announcement and follow appropriate guidelines.

HED 8450 EPIDEMIOLOGY & PREVENTION OF DISEASE (3 credits)
The course is designed for health behavior graduate students and others who are interested in public health. The causes, prevention, treatment and control of prevalent communicable and non-communicable disease in a culturally diverse and global society will be emphasized. Special emphasis will be given to diseases and health problems that can be prevented or controlled through education and advocacy. Students will apply skills to contemporary issues.

HED 8556 HEALTH ASPECTS OF AGING (3 credits)
This course emphasizes health promotion for older adults. Special health needs of older Americans are compared and contrasted with health needs for other age groups. Prevention or delaying of chronic diseases and disorders are emphasized. (Cross-listed with HED 4550, GERO 4550, GERO 8556, WGST 4550).

HED 8600 HEALTH BEHAVIOR (3 credits)
The purpose of this course is to study the theoretical foundations of health behavior. Candidates will develop an understanding of the determinants of health behavior, the models and theories that provide a framework for predicting health behavior, and the strategies employed to bring about behavioral changes for health and disease prevention in individuals and groups.

HED 8706 WOMEN'S HEALTH AND ISSUES OF DIVERSITY (3 credits)
This course provides a critical understanding of the inter-relationship between socio-cultural, economic, and political factors and women's physical and mental health. The aim is to provide an overview of the experience with the health care system. Emphasis will be on critically examining recent scholarship from a sociological, behavioral, health policy perspective. (Cross-listed with HED 4700, SOC 4700, SOC 8706).
Prerequisite(s)/Corequisite(s): Graduate standing.

HED 8730 DYING, DEATH & GRIEVING (3 credits)
An examination of theory and research relevant to interaction with the terminally ill person, focusing on communication with widows and other survivors as well as the dying person. (Cross-listed with GERO 8730).

HED 8750 PROGRAM EVALUATION AND INSTRUMENTATION (3 credits)
This course will build skills for selection, development and analysis of various types of instruments and techniques for conducting process, impact, and outcome evaluations in health promotion, education, and behavior. Evaluation of health behavior change and its antecedents, changes in community services programs, and community health status will be discussed. Candidates will learn methods for developing choosing psychometric tools, choosing appropriate evaluation designs, procedures for data collection, and describing evaluation results. Emphasis will be placed on political, statistical, and theoretical aspects of instrumentation and evaluation practices.
Prerequisite(s)/Corequisite(s): HED 8270 or permission of instructor.

HED 8850 HEALTH ASPECTS OF STRESS MANAGEMENT (3 credits)
The health-related aspects of stress management and control will be the focus of this course. Selected techniques for self-regulating stress will be demonstrated, practiced and analyzed. Candidates will be introduced to current scientific research in human stress.
Prerequisite(s)/Corequisite(s): Graduate.
HED 8950 PUBLIC HEALTH LEADERSHIP AND ADVOCACY (3 credits)
This course incorporates public health leadership theory and practices that are grounded in biomedical and social science and sanctioned by public law. Also included is the politics of communities and organizations. Advocacy is emphasized as a key tool to secure funding and to help assure that local, state, and federal policy-makers will adopt, implement, and maintain important public health regulations, policies and programs.
**Prerequisite(s)/Corequisite(s):** Fifteen (15) health education graduate credits. Not open to non-degree graduate students.

HED 8990 HEALTH EDUCATION PRACTICUM (1-3 credits)
This course offers graduate candidates in health education an opportunity to gain practical, on-the-job training in health education in local schools, businesses, hospitals, clinics, voluntary health agencies or governmental health agencies.
**Prerequisite(s)/Corequisite(s):** Candidates must have completed 21 credit hours at the undergraduate or graduate level (3.0 GPA or above) in health education prior to enrolling in this course. Not open to non-degree graduate students.

HPER 8000 SPECIAL STUDIES (1-3 credits)
A series of intensive courses - scheduled as regular seminars or workshops according to purpose.
**Prerequisite(s)/Corequisite(s):** Permission of department.

HPER 8030 RESEARCH IN HEALTH, PHYSICAL EDUCATION AND RECREATION (3 credits)
The course deals with scientific writing, research techniques, statistics, and quantitative research design and technique. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal in a form of a master's thesis or doctoral dissertation is written as one of the course requirements. (Cross-listed with HPER 9031).
**Prerequisite(s)/Corequisite(s):** Graduate standing. Not open to non-degree graduate students.

HPER 8100 RESEARCH PROJECT (1-3 credits)
Individual or group study and analysis of specific problems in health, physical education or recreation.
**Prerequisite(s)/Corequisite(s):** Permission of instructor.

HPER 8220 PROBLEMS & ISSUES IN HPER (3 credits)
An examination of current problems and issues in HPER that relate to the general aims and purposes of HPER.

HPER 8300 ANALYSIS OF RESEARCH AND LITERATURE IN HUMAN MOVEMENT (3 credits)
Survey of research and literature in Human Movement for the purpose of orienting the candidate to possible areas of research and developing an understanding of and appreciation for writings in the filed. The course may be offered focusing on only one specific area in HPER.
**Prerequisite(s)/Corequisite(s):** HPER 8030

HPER 8500 QUALITATIVE RESEARCH METHODS (3 credits)
An examination of qualitative research methods. Emphasis on the broad application of qualitative research in public health, education, and social sciences. Course topics include research design, data collection, data analysis, and reporting.
**Prerequisite(s)/Corequisite(s):** Not open to non-degree graduate students.

HPER 8850 EXERCISE FOR SPECIAL POPULATIONS (3 credits)
The course will examine the physiological and medical limitations imposed on people with various common chronic diseases/conditions including arthritis, osteoporosis, exercise-induced asthma, obesity, diabetes, hypertension and pregnancy. Special groups such as children and elders will be discussed. Content will emphasize the etiology and guidelines for exercise testing, prescription, and supervision. (Cross-listed with HPER 9851).
**Prerequisite(s)/Corequisite(s):** PE 4940 or PE 8946

HPER 8990 THESIS (1-6 credits)
The thesis experience is designed to help develop the candidate's ability to execute accepted procedures associated with the research process appropriate to the Master's degree.
**Prerequisite(s)/Corequisite(s):** Permission. Not open to non-degree graduate students.

HPER 9031 RESEARCH IN HEALTH, PHYSICAL EDUCATION AND RECREATION (3 credits)
The course deals with scientific writing, research techniques, statistics, and quantitative research design and technique. Considerable emphasis is placed on evaluation of research in scholarly publications. A research proposal in a form of a master's thesis or doctoral dissertation is written as one of the course requirements. (Cross-listed with HPER 8030).
**Prerequisite(s)/Corequisite(s):** Graduate standing. Not open to non-degree graduate students.

HPER 9851 EXERCISE FOR SPECIAL POPULATIONS (3 credits)
The course will examine the physiological and medical limitations imposed on people with various common chronic diseases/conditions including arthritis, osteoporosis, exercise-induced asthma, obesity, diabetes, hypertension and pregnancy. Special groups such as children and elders will be discussed. Content will emphasize the etiology and guidelines for exercise testing, prescription, and supervision. (Cross-listed with HPER 8030 or HPER 9031 or equivalent.

PE 8040 ADVANCED STATISTICS (3 credits)
This course will be a study in the statistical methods commonly used in descriptive and experimental research in physical education and exercise science. Application, particularly regarding the purpose, selection, and interpretation of statistical procedures will be emphasized. (Cross-listed with PE 9041)

PE 8076 OPTIMIZING SPORTS PERFORMANCE (3 credits)
The course is designed for coaches, athletes and physically active people, and allied health professionals. Course content emphasizes integration of several disciplines in sports medicine aimed at preparing one for optimal sports performance. Topics include peaking, detraining, overuse injury, efficiency, special foods and nutritional requirements, genetics and trainability, and designing of multi-year training schedules. (Cross-listed with PE 4070)

PE 8086 CLINICAL EXERCISE PHYSIOLOGY (3 credits)
This course will offer students the knowledge, skills, and abilities to take the American College of Sports Medicine's health fitness instructor certification exam. This course will emphasize health risk assessment, exercise testing, and exercise prescription for healthy and clinical populations. (Cross-listed with PE 4080)

PE 8120 CURRENT TOPICS IN WEIGHT MANAGEMENT (3 credits)
This course will focus on current issues related to weight management. Candidates will review the guidelines for physical activity and nutrition, apply them to current reading material sold in book stores, and develop a best practice for weight management using what they have learned.
**Prerequisite(s)/Corequisite(s):** Not open to non-degree graduate students.
PE 8130 IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS (3 credits)
This course will focus on information necessary to assess, design, implement, and evaluate the need for and effectiveness of physical activity interventions in diverse populations, races, and ethnicities. These populations will include: African American, Native American, Hispanic, Asian American, Pacific Islanders, and Caucasian. Additionally, candidates will complete a health and physical activity service learning project in which they will work with diverse populations in the community. (Cross-listed with PE 9131)
Prerequisite(s)/Corequisite(s): PE 3900 or PE 8905 or PE 8700 or HED 8600. Not open to non-degree graduate students.

PE 8140 PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH (3 credits)
This course will cover the broad scope of research on physical activity and public health. Emphasis will be placed on the application of physical activity assessment techniques. (Cross-listed with PE 9141)

PE 8176 MOTOR ASSESSMENT AND PRESCRIPTION (3 credits)
An in-depth survey of motor and fitness assessment instruments for use with pre-school, elementary, and secondary school students. The use of test scores for diagnosis and prescription of physical education activities for special populations will be addressed. This course will enhance the skills of the teacher to orchestrate the learning environment for students with special needs. (Cross-listed with PE 4170)
Prerequisite(s)/Corequisite(s): PE 4150

PE 8186 PRACTICUM IN PHYSICAL EDUCATION FOR THE DISABLED CHILD (3 credits)
This course is designed as a practicum with theoretical and practical experience in addressing the motor needs of young disabled children in a physical education setting. This course will enhance the skills of the teacher to orchestrate the learning environment for students with special needs. (Cross-listed with PE 4180)
Prerequisite(s)/Corequisite(s): PE 4170 or PE 8176, and permission of instructor.

PE 8206 PLANNING WORKSITE WELLNESS PROGRAMS (3 credits)
This course will focus on the planning of quality worksite wellness programs utilizing standards established by the Association for Worksite Health Promotion. Steps in the planning process such as needs assessment, strategic planning, implementation, and evaluation will be taught with special application to the worksite. Critical issues involving worksite programs will be addressed as upper management support, program standards, corporate culture, competencies for worksite health promotion professionals, economic benefits, behavioral theories, legal issues, and the integration of worksite wellness programs and health care. (Cross-listed with PE 4200)
Prerequisite(s)/Corequisite(s): Junior standing.

PE 8210 EMERGENCY MANAGEMENT OF INJURY AND ILLNESS (2 credits)
The purpose of this course is to prepare students to respond to emergent conditions that affect patients involved in physical activity. Students will learn to recognize the signs and symptoms of acute injury and illness, assess patients using evidence-based methods, apply appropriate treatments, make appropriate referral decisions, and implement effective prevention strategies to reduce the risk of injury and illness.
Prerequisite(s)/Corequisite(s): Admission to the Master of Arts in Athletic Training program. Not open to non-degree graduate students.

PE 8240 SPORT IN AMERICAN CULTURE (3 credits)
Sport in American culture is a study of sport from a theoretical perspective. The relationship between sport and sub-cultures (to include disadvantaged American cultures), economics, global influences, and technology will be analyzed.

PE 8266 INCLUDING INDIVIDUALS WITH DISABILITIES IN PHYSICAL EDUCATION (3 credits)
This course is for physical education, health education, special education and therapeutic recreation candidates interested in the inclusion of children with disabilities in physical education environments. (Cross-listed with PE 4260)
Prerequisite(s)/Corequisite(s): PE 3060 or PE 4000 and PE 4150

PE 8280 CURRICULUM IN PHYSICAL EDUCATION (3 credits)
A study of the foundations for curriculum development. Special consideration is given to curriculum change, curriculum patterns and programs in physical education which will meet a culturally diverse, global society.

PE 8310 ATHLETIC TRAINING TECHNIQUES (2 credits)
Overview course including basic components of the athletic training profession including the prevention, recognition, evaluation and immediate care of athletic injuries. Medical terminology, tissue healing, taping procedures, and professional considerations will be covered.
Prerequisite(s)/Corequisite(s): Admission to the Master of Arts in Athletic Training. Not open to non-degree graduate students.

PE 8316 LOWER EXTREMITY EVALUATION (3 credits)
This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the lower back, hip, and lower extremities. (Cross-listed with PE 4310)
Prerequisite(s)/Corequisite(s): PE 8326 and PE 8710. Not open to non-degree graduate students.

PE 8326 UPPER EXTREMITY EVALUATION (3 credits)
This course is designed to provide the candidate with knowledge and skill in the area of advanced athletic injury assessment. The candidate will be exposed to current methodology in the field of orthopedic assessment, pathophysiology of orthopedic injury, and application of current research in injury evaluation. The candidate will receive practical experience in the management of athletic injuries. This course will focus on the head, neck, thorax, and upper extremities. (Cross-listed with PE 4320)
Prerequisite(s)/Corequisite(s): PE 8316 and PE 8736, and PE 8720. Not open to non-degree graduate students.

PE 8336 ATHLETIC THERAPEUTIC MODALITIES (3 credits)
This course will cover the theory, physiology and application of physical agents used in the treatment of injuries and illness. Students will gain practical experience utilizing selected agents to treat injuries and illnesses. (Cross-listed with PE 4330)
Prerequisite(s)/Corequisite(s): PE 8326 and PE 8710. Not open to non-degree graduate students.

PE 8346 REHABILITATION TECHNIQUES IN ATHLETIC TRAINING (3 credits)
The use of basic theories and principles of athletic injury rehabilitation including therapeutic exercise and the use of physical agents. The development of rehabilitation programs including hands-on practical application. (Cross-listed with PE 4340)
Prerequisite(s)/Corequisite(s): Written Permission Required

PE 8356 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3 credits)
Administration of athletic training programs including the use of records and forms, budgets, facility design and legal concerns. (Cross-listed with PE 4350)
Prerequisite(s)/Corequisite(s): PE 3430, PE 4320.
PE 8360 ADVANCED ORTHOPEDIC & MEDICAL ASPECTS OF ATHLETIC TRAINING (3 credits)
This course will enhance the candidate's knowledge of orthopedic aspects and general medical conditions of the athlete. Involves lecture, directed observation, experiential learning, literature review and hands-on experience. Local medical professionals will be providing instruction and supervision within their specialties. The candidate will be exposed to advanced evaluation and treatment skills, including imaging techniques, surgical procedures, rehabilitation and athletic training management.
Prerequisite(s)/Corequisite(s): PE 8316 and PE 8326

PE 8370 ANALYZING PHYSICAL EDUCATION TEACHING & SPORT INSTRUCTION (3 credits)
This course will examine the teaching and coaching in physical education and sport. It will identify assessment techniques utilized in teaching and coaching behavior research as well as typical prescriptions in an effort to improve one's performance.
Prerequisite(s)/Corequisite(s): Graduate standing

PE 8460 OCCUPATIONAL BIOMECHANICS (3 credits)
The course will address the biomechanical basis of human performance in work places and provide candidates with information in the application of biomechanics, engineering for designing industrial tools, equipment, products, and jobs that take into consideration human physical capabilities and limitations.
Prerequisite(s)/Corequisite(s): PE 4630 or equivalent and PE 2880. Not open to non-degree graduate students.

PE 8550 BEHAVIORAL ASPECTS OF COACHING (3 credits)
This course is designed to provide the physical education teacher and athletic coach with an overview of the behavioral aspects of coaching athletes. The course will provide information which will enable the coach to enhance as well as orchestrate performance of elementary, junior high, senior high, college, and post-college athletes. (Cross-listed with PE 4500)

PE 8700 PSYCHOLOGY OF PHYSICAL ACTIVITY (3 credits)
The central purpose of this course is to examine the psychological antecedents and consequences of exercise and physical activity behaviors. The course will focus on traditional theories/principles of psychology as they relate to various physical activity settings. (Cross-listed with PE 9701)
Prerequisite(s)/Corequisite(s): Undergraduate or graduate course in either: PE 3900 or PE 4500 or PE 8506 or equivalent; or instructor permission.

PE 8710 CLINICAL PRACTICUM IN ATHLETIC TRAINING I (1 credit)
Clinical Practicum in Athletic Training I is the first course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.
Prerequisite(s)/Corequisite(s): Admission to the MA in Athletic Training program, instructor permission, & continued compliance with published Athletic Training Program Technical Standards for Admission. Co-requisite: PE 8326. Not open to non-degree graduate students.

PE 8720 CLINICAL PRACTICUM IN ATHLETIC TRAINING II (1 credit)
Clinical Practicum in Athletic Training II is the second course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.
Prerequisite(s)/Corequisite(s): Admitted to MA in Athletic Training program, PE 8710, instructor permission, & continued compliance w/ published Athletic Training Program Technical Standards for Admission. Co-reqs: PE 8316 & PE 8336. Not open to non-degree graduate students.

PE 8730 CLINICAL PRACTICUM IN ATHLETIC TRAINING III (1 credit)
Clinical Practicum in Athletic Training III is the third course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.
Prerequisite(s)/Corequisite(s): Admitted to MA in Athletic Training program, PE 8720, instructor permission, & continued compliance w/ published Athletic Training Program Technical Standards for Admission. Co-reqs: PE 8346 & PE 8356. Not open to non-degree graduate students.

PE 8740 CLINICAL PRACTICUM IN ATHLETIC TRAINING IV (1 credit)
Clinical Practicum in Athletic Training IV is the fourth course in the Clinical Practica series for students admitted to the Master of Arts in Athletic Training Program. Students will perform required clinical experiences under the supervision of a licensed athletic trainer in order to improve clinical and decision-making skills.
Prerequisite(s)/Corequisite(s): Admission to the MA in Athletic Training program, PE 8730, instructor permission, and continued compliance with published Athletic Training Program Technical Standards for Admission. Co-req: PE 8966. Not open to non-degree graduate students.

PE 8800 RISK MANAGEMENT FOR HEALTH FITNESS PROFESSIONALS (3 credits)
A study of risk management for health fitness professionals with a focus on minimizing liability exposures for health fitness facilities and their personnel. Principles of risk management such as the assessment of liability exposures, the development and implementation of risk management strategies, and the evaluation of these strategies will be explored as well as the law as it pertains to health fitness liability. Candidates will develop the knowledge and skill to manage high quality health fitness programs in various settings.
Prerequisite(s)/Corequisite(s): PE 4010 or PE 8016

PE 8845 CARDIOVASCULAR DISEASE PREVENTION AND REHABILITATION (3 credits)
The purpose of this course is to provide candidates with an introduction to the theories and practices involved in all phases of cardiac rehabilitation. (Cross-listed with PE 4850)
Prerequisite(s)/Corequisite(s): PE 8946

PE 8865 SCIENTIFIC ASPECTS OF STRENGTH DEVELOPMENT (3 credits)
This course is designed to explore the nature of muscular strength development, to investigate the physiological basis of physical conditioning, and to provide teachers, coaches and trainers with practical experience in designing specialized conditioning programs for a variety of sports and cultures.

PE 8900 MANAGEMENT & LEADERSHIP SKILLS FOR FITNESS WELLNESS MANAGERS (3 credits)
This course is a study of management and leadership skills necessary for the successful management of fitness and wellness facilities and programs. Candidates will develop knowledge and practical skills in the areas of personnel and financial management, marketing, and operating policies procedures as well as develop a personal leadership philosophy based on sound principles of leaders.
Prerequisite(s)/Corequisite(s): PE 4010 or PE 8016 or ACSM Health Fitness Certification.

PE 8910 INTERNSHIP IN EXERCISE SCIENCE (3 credits)
This course is an off-campus, supervised, educational work experience of at least 150 clock hours at an approved worksite offering programs and experiences in fitness development or health promotion. Candidates must have current CPR certification.
Prerequisite(s)/Corequisite(s): The prerequisites for this course include 90 hours completed, 2.5 GPA, PE 4900 and permission of instructor.
PE 8950 ADVANCED EXERCISE PHYSIOLOGY (3 credits)
A detailed analysis of selected topics including acute and chronic effects of exercise on metabolic, pulmonary, and cardiovascular function; and sports nutrition. Current research findings and methodology will be emphasized. (Cross-listed with PE 4950)
Prerequisite(s)/Corequisite(s): PE 4940 or equivalent

PE 8966 TOPICS IN SPORTS MEDICINE (3 credits)
This course covers selected topics regarding the science and medicine of sports participation. Some areas to be covered include the medical supervision of the athlete, special populations, conditioning, environmental concerns and sports nutrition. (Cross-listed with PE 4960)
Prerequisite(s)/Corequisite(s): PE 8346, PE 8356, and PE 8730, or Instructor consent.

PE 9040 PHYSICAL ACTIVITY EPIDEMIOLOGY (3 credits)
This course will cover the broad scope of the issues related to epidemiological methods that are relevant to the study of physical activity populations. It is intended to enhance students’ ability to understand and apply epidemiological methods to physical activity related research. 
Prerequisite(s)/Corequisite(s): PE 8130 and PE 8040 or related course, or permission by the instructor. Not open to non-degree graduate students.

PE 9041 ADVANCED STATISTICS (3 credits)
This course will be a study in the statistical methods commonly used in descriptive and experimental research in physical education and exercise science. Application, particularly regarding the purpose, selection, and interpretation of statistical procedures will be emphasized. (Cross-listed with PE 8040)
Prerequisite(s)/Corequisite(s): HPER 8030 or HPER 9031 or equivalent.

PE 9131 IMPLEMENTING PHYSICAL ACTIVITY IN DIVERSE POPULATIONS (3 credits)
This course will focus on information necessary to assess, design, implement, and evaluate the need for and effectiveness of physical activity interventions in diverse populations, races, and ethnicities. These populations will include: African American, Native American, Hispanic, Asian American, Pacific Islanders, and Caucasian. Additionally, candidates will complete a health and physical activity service learning project in which they will work with diverse populations in the community. (Cross-listed with PE 8130)
Prerequisite(s)/Corequisite(s): PE 3900 or PE 8905 or PE 8700 or HED 8600. Not open to non-degree graduate students.

PE 9141 PHYSICAL ACTIVITY ASSESSMENT AND HEALTH RELATED RESEARCH (3 credits)
This course will cover the broad scope of research on physical activity and public health. Emphasis will be placed on the application of physical activity assessment techniques. (Cross-listed with PE 8140)

PE 9701 PSYCHOLOGY OF PHYSICAL ACTIVITY (3 credits)
The central purpose of this course is to examine the psychological antecedents and consequences of exercise and physical activity behaviors. The course will focus on traditional theories/principles of psychology as they relate to various physical activity settings. (Cross-listed with PE 8700)
Prerequisite(s)/Corequisite(s): Undergraduate or graduate course in either: PE 3900 or PE 4500 or PE 8506 or equivalent; or instructor permission.

PE 9810 HIGHER EDUCATION TEACHING SEMINAR (3 credits)
The seminar is designed to prepare students for entry into a higher education teaching career. This seminar requires doctoral students to teach an undergraduate or graduate lecture course relevant to their field of preparation. The seminar includes an examination of the roles, responsibilities, and privileges associated with teaching in higher education. 
Prerequisite(s)/Corequisite(s): Admission to the UNO Doctoral Program in Exercise Science and successful completion of 24 hours of doctoral coursework and approval from advisor. Not open to non-degree graduate students.

PE 9820 SERVICE EXPERIENCE IN HIGHER EDUCATION (3 credits)
This seminar will allow students the opportunity to gain valuable knowledge of the service expectations of faculty in higher education settings. The seminar will focus on service opportunities within the university, within the profession and within the community. Participants in the seminar will complete appropriate service activities.
Prerequisite(s)/Corequisite(s): Admission to the UNO Doctoral program in Exercise Science, successful completion of 24 hours of doctoral coursework, and approval from advisor. Not open to non-degree graduate students.

PE 9910 DOCTORAL SEMINAR (3 credits)
The major goal of this course is to teach the graduate student how to write manuscripts/grams and be an effective academician with strong ethics. The outcome of this course is for the student to produce a manuscript based on data acquired in the laboratory from the ideas developed in the seminar or submit a grant that will support the research ideas developed in at least one semester. The material covered is intended to equip students with the skills necessary to be successful in their academic careers with emphasis on writing scientific papers. (Cross-listed with BMCH 9910)
Prerequisite(s)/Corequisite(s): Admission into the PhD program. Not open to non-degree graduate students.

PE 9951 ADVANCED EXERCISE PHYSIOLOGY (3 credits)
A detailed analysis of selected topics including acute and chronic effects of exercise on metabolic, pulmonary, cardiovascular function, skeletal muscle function, and sports nutrition. Current research findings and methodology will be emphasized. (Cross-listed with PE 8950)
Prerequisite(s)/Corequisite(s): PE 4940 or equivalent.

PE 9960 ADVANCED EXERCISE PHYSIOLOGY II (3 credits)
The focus of this course is a detailed analysis of the mechanisms responsible for acute and chronic responses to exercise at the cellular and molecular level. Current and historical research will be emphasized.
Prerequisite(s)/Corequisite(s): PE 8950 or PE 9951. Not open to non-degree graduate students.

PE 9990 DISSERTATION (1-15 credits)
The course provides doctoral candidates in Exercise Science with a process to complete a dissertation research plan. The course learning activities will focus on the completion of a candidate’s dissertation. The course is designed to allow advanced doctoral candidates to demonstrate technical mastery of the discipline and to advance knowledge by completing an investigation. (Cross-listed with BMCH 9990)
Prerequisite(s)/Corequisite(s): Admission to the UNO Doctoral Program in Exercise Science, successful completion of doctoral coursework & comprehensive exams, approval of the dissertation supervisory committee chair & advancement to candidacy. Not open to non-degree graduate students.