**PHYSICAL EDUCATION (5550)**

5550:500. Musculoskeletal Anatomy I: Upper Extremity. (3 Credits)
Designed to address the upper portions of the musculoskeletal system in comprehensive detail. Includes articulations, cytology, histology, and neurological integration with lab and practical experiences.

5550:501. Musculoskeletal Anatomy II: Lower Extremity. (3 Credits)
Designed to address the lower portions of the musculoskeletal system in comprehensive detail. Includes articulations, cytology, histology, and neurological integration with lab and practical experiences.

5550:505. Advanced Strength and Conditioning. (3 Credits)
This course teaches strength and conditioning programs design for heterogeneous populations. The course covers high-level sport specific exercise prescriptions that aids injury prevention and performance enhancement.

5550:510. Intro: Sport Sociology. (3 Credits)
Provides information to students about the sociological aspects of sport. Delivered in a totally online format, web-based format, or in a face-to-face format.

5550:518. Cardiorespiratory Function. (3 Credits)
This course is designed to study the normal structure and function of the respiratory system and how it is affected by different types of disease.

5550:522. Sport Planning/Promotion. (3 Credits)
Analysis of marketing/promotions from a sport manager's perspective. Emphasis on marketing strategy, tactics and development in sport delivery systems. Delivered in a totally online format, web-based format, or in a face-to-face format.

5550:524. Sports Leadership. (3 Credits)
Introduces students to current issues related to leadership, management, and supervision. Examines current sport leadership research and governance structure of amateur and professional sport organizations. Delivered in a totally online format, web-based format, or in a face-to-face format.

5550:526. Nutrition for Sports. (3 Credits)
This course will provide an explanation of the consumption, absorption, and recommendation for diet of athletes and the physically active individual.

5550:528. Nutrition for Teachers and Coaches. (3 Credits)
Covers nutritional basics and current topics related to teaching physical education/health and coaching athletes.

5550:536. Foundations & Elements of Adapted Physical Education. (3 Credits)
Principles, components, and strategies necessary in providing motor activities for handicapped students via application of a neuro-developmental model and alternative methods. Three hour lecture.

5550:538. Cardiac Rehab Principles. (3 Credits)
This course will teach students the core competencies for cardiac rehab professionals, based upon the American Association of Cardiovascular and Pulmonary Rehabilitation Specialists (AAVCPR).

5550:540. Injury Management for Teachers & Coaches. (2 Credits)
This course challenges the graduate student to understand ways to provide and care for the safety of individual they teach.

5550:541. Advanced Athletic Injury Management: Upper Extremity. (4 Credits)
Prerequisites: 3100:200, 3100:201, 3100:202, 3100:203 and 5550:240. This course is designed to cover recognition, evaluation, and rehabilitation of upper extremity injuries as well as general medical pathologies of the upper extremity.

5550:546. Instructional Techniques in Secondary Physical Education. (3 Credits)
Instructional strategies for secondary physical education. The course content is to improve the teaching skills of students who will be teaching physical education at the secondary level. It is a required course for the physical education licensure.

5550:547. Instructional Techniques for Children in Physical Education. (3 Credits)
Instructional strategies for elementary physical education. The course content is to improve the teaching skills of students who will be teaching physical education for children. It is a required course for the physical education licensure.

5550:550. Organization & Administration of Physical Education, Intramurals and Athletics. (3 Credits)
General concepts of administration and organization in physical/health education, intramural, and athletic programs.

5550:552. Foundations of Sport Science, Physical and Health Education. (3 Credits)
Overview of the emergence of sport science, physical and health education as a profession and the supporting role of underlying scholarly and scientific disciplines.

5550:553. Principles of Coaching. (3 Credits)
Basics for becoming a successful coach. Discussion of principles applying to most sports, players and coaches. Delivered in a totally online format, web-based format, or in a face-to-face format. Ten clinical hours required.

5550:562. Legal Aspects of Physical Activity. (2 Credits)
Overview legal and ethical elements of greatest concern to specialists in sport and physical activity. Cases used to illustrate specific points. Topics vary. Delivered in a totally online format, web-based format, or in a face-to-face format.

5550:565. Psychology of Injury Rehabilitation. (2 Credits)
Prerequisites: 3100:200, 3100:201, 3100:202, and 3100:203. This course will address the cognitive and affective aspects of injury and rehabilitation of injury. Specifically the stages of rehabilitation and techniques to aid in the rehabilitation process.

5550:570. Orthopedic Injury and Pathology. (3 Credits)
Prerequisites: 3100:200, 3100:201, 3100:202, and 3100:203. This course will discuss common musculoskeletal pathology and surgical procedure associated with a physically active population.

5550:590. Workshop: Physical Education. (1-3 Credits)
Practical, intensive, and concentrated involvement with current curricular practices in areas related to physical education.

5550:592. Workshop: Physical Education. (1-3 Credits)
Practical, intensive, and concentrated involvement with current curricular practices in areas related to physical education.
5550:594. Student Teaching Colloquium (for Master's Plus Initial Lic.). (2 Credits)
Prerequisites: required physiological foundations courses, required historical/philosophical foundations courses, required program studies courses. Corequisite: 595. Students who have a bachelor's degree but no teaching licensure and who are completing the master's plus initial licensure program will meet while completing student teaching to discuss concerns about the student teaching experience, to analyze previous learning as it relates to this and future teaching.

5550:595. Practicum: Student Teaching. (8 Credits)
Prerequisites: Core courses and program studies courses, each with a 2.5 grade point average. Corequisite: 5550:594. Student teaching for 16 weeks in primary and secondary school settings.

5550:600. Biomechanics Applied to Sport and Physical Activity. (4 Credits)
Training future professionals in an integrated approach to qualitative diagnosis of motor skills for a variety of professional settings. Required clinical/field experiences.

5550:601. Sports Administration & Supervision. (3 Credits)
Organizational and administrative efficiency in implementing sports programs (event management, budgeting, public relations); objective and effective procedures for evaluation/selection of personnel; periodic program reviews.

5550:602. Motor Behavior Applied to Sports. (3 Credits)
Coaching education principles related to motor development and motor skill learning. Focus on effective practices for learning and advanced skills teaching for coaches.

5550:603. Tactics & Strategies in the Science of Coaching. (3 Credits)
Course focuses on coaching and teaching the skills, tactics, and strategies in individual and team sports. May be taught online, web-enhanced, or face-to-face.

5550:604. Current Issues in Sport and Physical Education. (3 Credits)
This course represents a planned experience in interpretation and articulation of information within the context of selected issues in sport.

5550:605. Physiology of Muscular Activity & Exercise. (3 Credits)
Functions of body systems and physiological effects of exercise. Laboratory experiences, lectures, discussions.

5550:606. Statistics: Quantitative & Qualitative Methods. (3 Credits)
Prerequisite: 5100:640. Research methods/designs, statistics (application and interpretation), use of computers and appropriate software as they relate to various disciplines in the area of physical activity.

5550:609. Motivational Aspects of Physical Activity. (3 Credits)
Analysis of factors influencing motivation of motor performance with emphasis on competition, audience effects, aggression.

5550:610. Mastering Teaching and Coaching. (3 Credits)
To learn about becoming master teachers and coaches, students will apply effective teaching skills, focus on context, and reflect on the teaching/coaching process. Additional 10 clinical/field hours required.

5550:611. Research & Analysis of Effective Teaching in P.E.. (3 Credits)
For the new professional, this course concentrates on research and analysis of skills and professional competencies needed to become an effective teacher of physical education.

5550:612. General Medical Aspects. (4 Credits)
Covers various topics related to sports medicine and general medical conditions. Students will gain perspectives and exposure to a variety of allied health care professionals.

5550:615. Current Topics in Exercise Physiology. (3 Credits)
Class teaches students to be critical readers of the literature. Readings in several areas in exercise science will be done. Exact areas of concentration with some guidance from the instructor.

5550:620. Laboratory Instrumentation Techniques in Exercise. (3 Credits)
This is a course designed to provide hands-on laboratory experiences for students in the area of exercise science.

5550:630. Business of Sport. (3 Credits)
The focus of this course is related to the important knowledge that administrators should have related to the sport business field.

5550:680. Special Topics in Health & Physical Education. (2-4 Credits)
(May be repeated) Prerequisite: permission of instructor. Group study of special topics in health and physical education and sports medicine.

5550:695. Field Experience: Masters. (1-6 Credits)
Prerequisite: permission of advisor. Participation in a work experience related to physical education. The experience may not be part of current position. Documentation of project required.

5550:697. Independent Study: Physical Education. (1-3 Credits)
Prerequisite: Permission of advisor. In-depth analysis of current practices or problems related to physical education. Documentation of the study required.

5550:698. Masters Problem. (2-4 Credits)
Prerequisite: permission of advisor. In-depth study of a research problem in education. Student must be able to demonstrate critical and analytical skills in dealing with a problem in physical education.

5550:699. Masters Thesis. (4-6 Credits)
Prerequisite: permission of advisor. In-depth research investigation. Student must be able to demonstrate necessary competencies to deal with a research problem in physical education.