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.

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.

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.

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)
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.

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.

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.

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: S100:640. 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.

5550:607 Health Behavior Change: Theory to Practice (3 Credits)
This course provides an overview of the CAAHEP performance domains
and associated competencies related to behavioral strategies for
exercise/physical activity adoption, adherence and maintenance. This
course prepares students to assess client readiness to change behavior,
and to recommend strategies for behavior modification based on fitness
level, disease status, and client goals.

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 (3 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 Exercise Pathophysiology (3 Credits)
This course prepares students for theoretical and practical aspects of
applying physical activity as therapeutic exercise for a wide array of
conditions and diseases. Course content explores the epidemiology,
etiology, pathophysiology, disease implications and therapeutic
interventions of cardiovascular, pulmonary, metabolic, immunological,
neuromuscular, psychological, sensory and cognitive disorders consisting
of both classroom lectures and hands-on laboratory skills. Course
material will cover performance domain standards and guidelines
aligning with the recommendation of the CAAHEP Committee on
Accreditation for Exercise Sciences (CoAES) to prepare students for
the Exercise Physiology profession. Focus on clinical contraindications
and safety precautions for each disease and illness will be highlighted.
The course is designed to provide the student with understanding of
the pathophysiology and exercise responses in these populations in
preparation for professional work in the community as an applied or
clinical exercise physiologist.

5550:618 Clinical Exercise Testing & Prescription (3 Credits)
This course provides the framework to prepared both the Applied and
Clinical Exercise Physiologists for theoretical and practical aspects of
fitness assessments, evaluations, testing and prescription. Students will
become competent in electrocardiography interpretation and exercise
testing protocols. This course will cover performance domain standards
and guidelines aligning with the recommendation of the CAAHEP
Committee on Accreditation for Exercise Sciences (CoAES) to prepare
students for the Exercise Physiology profession.

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.