DEPARTMENT OF SPORTS MEDICINE

College of Health Sciences

Overview

216 Sturzebecker Health Sciences Center
West Chester University
West Chester, PA 19383
610-436-3293

Department of Sports Medicine (http://www.wcupa.edu/sportsMed)
Dr. Morrison (kmorrison@wcupa.edu), Interim Chairperson
Dr. Curtis (ncurtis@wcupa.edu), Graduate Coordinator
Dr. Cattano (ncattano@wcupa.edu), Graduate Coordinator - M.S. in Athletic Training - Post-Professional Concentration

Program of Study

The Master of Science in Athletic Training program is designed to prepare students to become certified athletic trainers. Athletic trainers are healthcare professionals who function as members of the sports medicine team working in collaboration with physicians. Athletic trainers may be employed in high schools, colleges or universities, rehabilitation clinics, professional sports, hospitals, physician offices, industry, and other healthcare settings. They are involved in the prevention, emergency care, diagnosis, treatment, and rehabilitation of acute and chronic medical conditions.

Our program is designed for students with minimal knowledge and experience in athletic training. Upon completion of this Commission on Accreditation of Athletic Training Education (CAATE)-accredited program, students will be eligible to sit for the Board of Certification, Inc. (BOC) examination. Upon successful completion of this examination students will be BOC-certified athletic trainers (ATC). Most states use the results from the BOC examination to determine eligibility to practice athletic training.

This two-year program is only for students who have completed a bachelor's degree (in any major) and have met the admission requirements for the professional phase of the M.S. in Athletic Training program. This program is intended for college graduates who have completed their bachelor's degree and who may want to change careers, athletes who didn't have time during their undergraduate years to major in athletic training, and international students who want a career in athletic training.

Programs

Master's Programs in Sports Medicine

- M.S. in Athletic Training (http://catalog.wcupa.edu/graduate/health-sciences/sports-medicine/athletic-training-ms)
- M.S. in Athletic Training - Post-Professional Concentration (http://catalog.wcupa.edu/graduate/health-sciences/sports-medicine/athletic-training-ms-post-professional-concentration)

Accelerated Bachelor's to Master's

- B.S. in Health Science: General - Sports Medicine Studies Concentration to M.S. in Athletic Training (http://catalog.wcupa.edu/undergraduate/health-sciences/health-health-science-bs-general-sports-medicine-studies-concentration)

Admissions

All applicants to one of West Chester University's graduate programs will be held to the graduate admissions requirements (http://catalog.wcupa.edu/general-information/admissions-enrollment/graduate-admissions). When applicable, additional requirements for admission into specific department program(s) may be listed below.

Master of Science in Athletic Training

For admission consideration to the M.S. in Athletic Training, students must have the following:

1. Bachelor's Degree in any discipline.
2. Completion of an application in the Athletic Training Centralized Application System (ATCAS). The completion of this application replaces the completion of a WCU Graduate Studies application.
3. Transcript verification that the following prerequisite coursework has been completed at the college level with a grade of 2.00 or higher:
   - Human Physiology (3-4 credits with lab. When anatomy and physiology are taken as a combined course, two semesters are necessary to meet this requirement)
   - Chemistry (3-4 credits)
   - Physics (3-4 credits)
   - Statistics (3-4 credits). One course to include descriptive statistics, correlation, and introduction to inferential statistics or research design
   - Exercise Physiology (3-4 credits)
   - Kinesiology or Biomechanics
4. Transcript verification that the following prerequisite coursework has been completed at the college level with a grade of 3.00 or higher:
   - Human Anatomy (3-4 credits with lab. When anatomy and physiology are taken as a combined course, the semester in which the course is centered on structural anatomy will be considered for this requirement. Student will submit course descriptions if necessary). Students who do not obtain a grade of 3.0 or higher in Human Anatomy may be admitted as a provisional admit. Provisional admits will be required to pass an online comprehensive anatomy exam (minimum grade of 83%) and if this criteria is not met they must enroll in SMD 500, Human Cadaver Anatomy Lecture.
5. Verification of current CPR for the professional rescuer certification.

Policies

All graduate students are held to the academic policies and procedures (http://catalog.wcupa.edu/graduate/academic-policies-procedures) outlined in the graduate catalog. Students are encouraged to review departmental handbooks for program tips, suggested course sequences, and explanations of procedures. When applicable, additional policies for specific department programs may be listed below.

Faculty

Professors

Sandra Fowkes-Godek (sfowkesgodek@wcupa.edu) (1991)
B.S., Pennsylvania State University; M.S., University of Colorado; Ph.D., Temple University
Scott Heinerichs (sheinerichs@wcupa.edu) (2004)
B.S., West Chester University; M.A.T., University of South Carolina; Ed.D., Widener University
Carolyn Consuelo Jimenez (cjjimenez@wcupa.edu) (1994)
B.A., Colorado College; M.S., University of Arizona; Ph.D., Temple University

Associate Professors

Nicole Cattano (ncattano@wcupa.edu) (2007)
Graduate Coordinator, Sports Medicine

Graduate Coordinator, Kinesiology

B.S., University of North Carolina at Greensboro; M.P.H., West Chester University; Ph.D., Temple University

Neil Curtis (ncurtis@wcupa.edu) (1993)
Graduate Coordinator, Sports Medicine
SMD 500. Human Cadaver Anatomy. 2 Credits.
A regional study of the gross structure of the human body and human cadaver dissection covering the back, upper and lower limbs, head, neck, thorax, abdomen and pelvis. Emphasis is on the structure and function of the skeletal, muscular and peripheral nervous systems. Pre / Co requisites: SMD 500 requires a corequisite of SMD 501.
Distance education offering may be available.

SMD 501. Human Cadaver Dissection. 4 Credits.
A human cadaver dissection course accompanying SMD 500. The gross structures of the back, upper and lower limbs, head and neck, and thorax, abdomen and pelvis are studied. Pre / Co requisites: SMD 501 requires a corequisite of SMD 500.

SMD 502. Prevention & Care of Injury and Illness. 3 Credits.
This course builds upon students’ existing knowledge of basic life support and first aid, providing an avenue for practice and discussion of advanced first aid techniques and management of sport-related medical emergencies. The course also takes an evidence-based approach to common athletic injuries, principles of injury prevention, and the application of taping and bracing techniques used in athletic training. Pre / Co requisites: SMD 502 requires current CPR for the professional rescuer certification. Distance education offering may be available. Typically offered in Summer.

SMD 505. Evidence Based Practice in Sports Medicine. 3 Credits.
The purpose of this course is to expose students to evidence-based practice (EBP) and demonstrate the impact it has on clinical practice in the profession of athletic training and other allied health care professions. Students will be given all the necessary background information on EBP research design, tools to critically appraise, and will be equipped to perform an original EBP design or an analysis of consolidated EBP research. This course is designed to provide students with a greater understanding of how to prudentiely interpret research results as it pertains to influencing change in clinical practice. Pre / Co requisites: SMD 505 requires prerequisite MAT 121 or equivalent.

SMD 510. Therapeutic Agents. 3 Credits.
Therapeutic agents used in athletic training are presented with regards to physiological effects, pharmacology, indications/contraindications as well as the evidence-based practice for appropriate agent selection. Pre / Co requisites: SMD 510 requires prerequisite or co-requisite of SMD 502. Typically offered in Spring.

SMD 511. Principles of Rehabilitation. 3 Credits.
Principles, objectives, indications, contraindications, and progression of various exercise programs used in the rehabilitation of orthopedic injuries are presented. Pre / Co requisites: SMD 511 requires co-requisite of SML 511. Typically offered in Fall.
SMD 617. Athletic Training Clinical Experience 4. 4 Credits.
Clinical experience is provided in sports medicine settings. The student will have the opportunity to implement athletic training knowledges, skills and abilities while developing clinical reasoning and critical thinking in the delivery of health care and advanced clinical skills. Pre / Co requisites: SMD 617 requires prerequisite of SMD 616. Typically offered in Fall.

SMD 618. Athletic Training Clinical Experience 5. 4 Credits.
Clinical experience is provided in sports medicine settings. The student will have the opportunity to implement athletic training knowledges, skills and abilities while developing clinical reasoning and critical thinking in the delivery of health care and advanced clinical skills. Pre / Co requisites: SMD 618 requires prerequisite of SMD 617. Typically offered in Spring.

SMD 630. Research Methods and Biostatistics for Athletic Training. 3 Credits.
An overview of scientific methods, research designs, sampling, and survey techniques pertinent to study of the field of athletic training will be presented. Specifically, the course prepares you to read, understand, and evaluate research; retrieve research; and develop research-related skills for further graduate education. This course will also focus on the application of statistical methods to different athletic training related research designs, and data with different scales of measurement. Students will display and summarize data and also apply and interpret different statistical tests. Students will be able to complete all statistical tasks using SPSS. Methodology, data interpretation and professional write-up is emphasized. Typically offered in Fall.

SMD 640. Injury Risk and Prevention Strategies. 3 Credits.
The purpose of this course is to expose students to injury prevention programs and research, including topics such as concussion, overuse, upper and lower extremity, and heat injuries as well as the female athlete triad. Injury prevention research discussed relates to the athletic as well as other special populations, such as athletes with an injury history, military population, and females. Students will be equipped to clinically integrate injury prevention programs, including educating the athlete, coaches, and other allied health professionals. This course is designed to provide students with a greater understanding of how to select injury prevention programs as it pertains to influencing change in clinical practice. Typically offered in Fall.

SMD 654. Sport Physiology in Various Populations and Environments. 3 Credits.
This course will cover the advanced physiology of all major body systems during participation in sport and exercise with special attention to different populations such as body size, gender and age. The physiology of how the body reacts and adapts to exercise in different environmental conditions will be covered with special attention different populations. Typically offered in Fall.

SMD 654. Sport Physiology in Various Populations and Environments Lab. 1 Credit.
This laboratory course will expose students to and involve them in activities related to the lecture course SMD 654, Sport Physiology in Various Populations and Environments. Lab experiences for the application of therapeutic agents presented in SMD 654, Sport Physiology in Various Populations and Environments. Pre / Co requisites: SML 654 requires a co-requisite of SMD 654. Typically offered in Fall.

SMD 660. Research I. 3 Credits.
This course is intended to guide graduate students through the stages of writing their graduate theses OR research project. This course will involve: the selection of a topic and the conceptualization of the research project, the drafting of the first sections of the paper to include the literature review (proper writing style and format), selecting the appropriate research methods based on the type of hypotheses/research questions posed, and submission and approval of proposed project to research advisor and thesis committee (thesis only). Consent: Permission of the Department required to add. Typically offered in Fall.

SMD 669. Research II. 3 Credits.
This course is intended to guide graduate students through the final stages of the completion and writing of their graduate theses OR research project. Topics include: obtaining IRB approval (if necessary), data collection, data analysis, writing results, writing remaining sections (ex. discussion, limitations, future directions), finalizing final manuscript OR report including references, oral defense with thesis committee (thesis only), and final formatting for publication if requested by research advisor. Pre / Co requisites: SMD 669 requires a prerequisite of SMD 668. Consent: Permission of the Department required to add. Typically offered in Spring.