SPORTS MEDICINE (SMD)

College of Health Sciences

Courses

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.

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. Typically offered in Summer.

SMD 503. 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 prudently interpret research results as it pertains to influencing change in clinical practice. Pre / Co requisites: SMD 503 requires prerequisite or co-requirement of SMD 500.

SMD 504. 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 504 requires prerequisite of SMD 502. Typically offered in Fall.

SMD 505. Organizational and Administration of Athletic Training. 3 Credits.
This class will require students to review and research papers on specific and timely topics in sports medicine. Papers will be read prior to class, presented by students in class and then critically reviewed by the instructor and students. The suggested topics will be subject to change if additional topics are viewed by the instructors as being more current and important issues related to athletic training and sports medicine. Repeatable for Credit.

SMD 506. Orthopaedic Surgical Techniques. 3 Credits.
A course designed to enhance the sports medicine professionals knowledge and awareness of common orthopedic surgical techniques. Literature review, surgical inervation and post-surgical rehabilitation considerations will be addressed.

SMD 615. Athletic Training Clinical Experience 1. 3 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. Emphasis with equipment intensive sports. Pre / Co requisites: SMD 615 requires prerequisites of SMD 502 and SMD 512. Typically offered in Fall.

SMD 616. Athletic Training Clinical Experience 2. 3 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. Emphasis with adolescent and special populations. Pre / Co requisites: SMD 616 requires a prerequisite of SMD 515. Typically offered in Spring.

SMD 617. Athletic Training Clinical Experience 3. 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 516. Typically offered in Fall.

SMD 618. 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 618 requires prerequisite of SMD 617. Typically offered in Spring.
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 Summer.

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 693. Selected Topics in Sports Medicine. 3 Credits.
A second year graduate course covering environmental topics, theory and practice of evidence-based sports medicine, educational and course assessment concerns for sports medicine professionals. Repeatable for Credit.