

# SMD: SPORTS MEDICINE

*College of Health Sciences*

## Courses

### **SMD 100. Foundations of Sports Medicine. 3 Credits.**

This is an entry-level course that includes basic information all healthcare providers need to work in a variety of departments in the healthcare profession. The course is comprised of an orientation to the healthcare delivery system, including history, definition, an overview of a variety of allied health occupations that make up the healthcare team, the multidisciplinary skills needed for success in the healthcare environment, including ethics, patient education, critical thinking skills, communication skills, and professional development.

Distance education offering may be available.

Typically offered in Fall.

### **SMD 204. First Aid for Health Professionals. 3 Credits.**

Prepares health professionals to meet emergencies requiring first aid. Includes First Responder training.

Typically offered in Spring & Summer.

### **SMD 210. Psychosocial Perspectives of Sports/Recreational Injuries. 3 Credits.**

This course provides students with information on the impact of sport and recreational injuries in society. Students will engage in discussion and lessons to help them appreciate and understand the psychological impact and sociological factors affecting the health and wellness of physically active individuals. Students will think critically and analytically about current events in sports medicine that overlap with psychology and sociology. This course will also require students to engage in the writing process and improve their academic writing skills. Topics will include psychology and sociology of sport injury, gender and sport, the influence of media, mental health, eating disorders, substance use/abuse, and psychological skills.

Gen Ed Attribute: Interdisciplinary Requirement, Writing Emphasis.

Distance education offering may be available.

Typically offered in Fall & Spring.

### **SMD 212. Pathology & Eval Athletic Injury/Illness I. 3 Credits.**

A presentation of the pathology, pharmacology, and management strategies relevant to sports medicine. Emphasis will be on nonorthopaedic conditions commonly encountered in a physically active population.

Pre / Co requisites: SMD 212 requires prerequisites of BIO 269 and SMD 312. Athletic Training Majors only.

Typically offered in Spring.

### **SMD 261. Surface Anatomy. 3 Credits.**

Orientation to major anatomical landmarks and underlying structures.

Pre / Co requisites: SMD 261 requires prerequisites of BIO 259.

Typically offered in Fall & Spring.

### **SMD 271. First Aid and Athletic Training. 2 Credits.**

A course designed to qualify students in First Aid and CPR, and to introduce the principles of athletic injury prevention and management. For non majors only.

### **SMD 272. Athletic Training Techniques. 3 Credits.**

A course designed to develop athletic training skills for beginning athletic training students.

Pre / Co requisites: SMD 272 requires prerequisite of SMD 100 or SMD 204.

Typically offered in Fall & Spring.

### **SMD 310. Therapeutic Modalities. 3 Credits.**

Physical agents used in athletic training are presented with regard to the physics, physiological effects, indications, contraindications, and progression.

Pre / Co requisites: SMD 310 requires prerequisite of SMD 312. Athletic Training majors only.

Typically offered in Spring & Summer.

### **SMD 311. Therapeutic Exercise for Athletic Training. 3 Credits.**

The principles, objectives, indications, contraindications, and progression of various exercise programs used in the rehabilitation of athletic injuries are presented.

Pre / Co requisites: SMD 311 requires prerequisites of SMD 312. Athletic Training Majors only.

Typically offered in Fall & Summer.

### **SMD 312. Pathology/Evaluation of Athletic Injury/Illness II. 3 Credits.**

A continuation of SMD 212 with emphasis on the pathology of injuries to the extremities commonly seen in athletics and the techniques for their evaluation.

Pre / Co requisites: SMD 312 requires prerequisites of BIO 259, BIO 269. Athletic Training Majors only.

Distance education offering may be available.

Typically offered in Spring & Summer.

### **SMD 313. Pathology/Evaluation of Athletic Injury/Illness III. 3 Credits.**

A continuation of SMD 312 with emphasis on the head, neck, and trunk.

Pre / Co requisites: SMD 313 requires prerequisite of SMD 312.

Typically offered in Fall & Summer.

### **SMD 315. Sports Injury Management I. 3 Credits.**

Clinical experience of 200 or more hours with specific behavioral objectives in athletic equipment selection and fitting, and the presentation of illness, injuries, and conditions.

Pre / Co requisites: SMD 315 requires co-requisites of SMD 311 and SMD 312 and SML 311.

Typically offered in Fall.

### **SMD 316. Sports Injury Management II. 3 Credits.**

Clinical experience of 200 or more hours with specific behavioral objectives in case study presentations of injuries, illnesses, and/or conditions, and hospital emergency department medical care.

Pre / Co requisites: SMD 316 requires co-requisite of SMD 310 and SMD 313 and SML 310.

Typically offered in Spring.

### **SMD 361. Kinesiology. 3 Credits.**

Basic Fundamentals of movement, articulation, and muscular actions; analysis of the related principles of mechanics.

Pre / Co requisites: SMD 361 requires a prerequisite of BIO 259 or EXS 241.

Typically offered in Fall.

### **SMD 400. Special Topics in Athletic Training. 3 Credits.**

An in-depth study of selected topics as it relates to athletic trainers and their treatment and management of musculoskeletal injuries. Course will examine current topics through the reading and critical analysis of literature related to athletic training using professional journals and practical experiences.

Repeatable for Credit.

### **SMD 414. History, Organization & Administration of Sports Medicine. 3 Credits.**

A presentation of the historical and current perspectives of athletic training, including techniques for organizing and administering athletic training programs.

Pre / Co requisites: SMD 414 requires prerequisite of SMD 315. Athletic Training majors only.

Gen Ed Attribute: Writing Emphasis.

Typically offered in Fall.

### **SMD 417. Sports Injury Management III. 3 Credits.**

Clinical experience of 200 or more hours with specific behavioral objectives in case study presentations of injuries, illnesses, and/or conditions, plus group discussions of clinical situations.

Pre / Co requisites: SMD 417 requires a prerequisite of SMD 316. Athletic Training majors only.

Typically offered in Fall.

### **SMD 418. Sports Injury Management IV. 3 Credits.**

Clinical experience of 200 or more hours and participation in critical reviews of sports medicine research combined with seminars which afford interaction with various medical and paramedical practitioners.

Pre / Co requisites: SMD 418 requires prerequisites of SMD 417. Athletic Training majors only.

Typically offered in Fall.

### **SMD 420. Sports Medicine 1. 3 Credits.**

This course introduces common orthopedic injuries to the lower extremity. Students will learn anatomy, biomechanics, injury signs and symptoms which will allow for the recognition and identification of orthopedic and neurological injuries. The course will also introduce the theoretical and evidence based approach to the rehabilitation of lower extremity injuries.

Special emphasis is placed on understanding the physiological impact of injury on tissues, recognition of the signs, symptoms, indications, contraindications for the evaluation and rehabilitation of musculoskeletal and neurological injuries in the physically active. This course is not intended to meet educational competencies required for athletic training. Majors only.

Pre / Co requisites: SMD 420 requires prerequisites of SMD 261, BIO 259, and BIO 269.

Distance education offering may be available.

Typically offered in Fall & Spring.

**SMD 430. Sports Medicine 2. 3 Credits.**

This course introduces common orthopedic injuries to the upper extremity, head, neck, spine, thorax and pelvis. Students will learn anatomy, biomechanics, injury signs and symptoms which will allow for the recognition and identification of orthopedic and neurological injuries. The course will also introduce the theoretical and evidence based approach to the rehabilitation of upper extremity, head, neck, spine, thorax and pelvis. Special emphasis is placed on understanding the physiological impact of injury on tissues, recognition of the signs, symptoms, indications, contraindications for the evaluation and rehabilitation of musculoskeletal and neurological injuries in the physically active. This course is not intended to meet educational competencies required for athletic training.

Pre / Co requisites: SMD 430 requires prerequisite of SMD 420. Majors only.

Distance education offering may be available.

Typically offered in Fall & Spring.

**SMD 450. Capstone in Sports Medicine. 3 Credits.**

This course is one of the final courses for students in the program. It is designed to develop students' oral communication skills. The purpose of this course is to demonstrate achievement of the program level learning outcomes and engage in self-reflection and self-evaluation. Learners will review, assess, and then apply many of the concepts taught during the undergraduate program through the creation of a portfolio and senior capstone project. The portfolio will also serve as a tangible artifact that houses acquired knowledge.

Pre / Co requisites: SMD 450 requires a prerequisite of majors only.

Gen Ed Attribute: Speaking Emphasis.

Typically offered in Spring.

**SMD 454. Theories/Practices of Conditioning & Tng. 3 Credits.**

Application of principles of physiology, psychology, and kinesiology for the design and use of conditioning programs for various sports.

Pre / Co requisites: SMD 454 requires prerequisites of EXS 380 and SMD 361.

Typically offered in Fall.

**SMD 490. Applied Clinical Anatomy. 3 Credits.**

This course will build upon the department's musculoskeletal anatomy course (SMD 261) and advance the understanding of other body systems (gastrointestinal, cardiovascular, etc). The course will enable students to gain a better appreciation of the structural and functional relationships in the human body and to enable a better understanding of the body in health and disease.

Pre / Co requisites: SMD 490 requires a prerequisite of SMD 261 with a grade of C or better.

Distance education offering may be available.

Typically offered in Fall, Spring & Summer.