SPORTS MEDICINE (SMED)

SMED 5100  CPR and Basic Life Support  
1 Semester Credit Hour (1 Lecture Hour)  
SMED 5100 provides the skills needed by health care professionals who are trained to respond to breathing, cardiac, and other first aid emergencies. This includes the use of automated external defibrillation (AED), oxygen, suctioning, and airway management devices to care for a victim of breathing or cardiac emergencies. This course will be taken twice; once in the summer of first year in the program for initial certification and then again in the summer of the second year in the program for recertification.

SMED 5101  Athletic Training Clinical Experience I  
1 Semester Credit Hour  
SMED 5101 offers a field-based professional experience to provide students the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies in the field of athletic training.

SMED 5102  Athletic Training Clinical Experience II  
1 Semester Credit Hour  
SMED 5102 offers a field-based professional experience to provide students the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies in the field of athletic training.  
Prerequisite: SMED 5101.

SMED 5103  Athletic Training Clinical Experience III  
1 Semester Credit Hour  
SMED 5103 offers a field-based professional experience to provide students the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies in the field of athletic training.  
Prerequisite: SMED 5102.

SMED 5104  Athletic Training Clinical Experience IV  
1 Semester Credit Hour  
SMED 5104 offers a field-based professional experience to provide students the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies in the field of athletic training.  
Prerequisite: SMED 5103.

SMED 5105  Athletic Training Clinical Experience V  
1 Semester Credit Hour  
SMED 5105 offers a field-based professional experience to provide students the opportunity to apply knowledge and theory related to the philosophy, principles, and competencies in the field of athletic training.  
Prerequisite: SMED 5104.

SMED 5200  Taping, Bracing, and Preventative Care in Athletic Training  
2 Semester Credit Hours (2 Lecture Hours)  
SMED 5200 provides students with lab-based instructions and experiences to introduce the various products and equipment used in the development and construction of pads and braces for injury prevention during sport and physical activity. Students will learn how to apply taping, bracing, bandaging and padding techniques that are common practice in Athletic Training.

SMED 5300  Clinical Anatomy  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5300 provides students with the foundational knowledge of students entering the Master of Science in Athletic Training Program. The course is designed to review and build upon students’ previous knowledge of muscular and joint anatomy, manual muscle testing, and sensory innervations.

SMED 5310  Evidence Based Practice  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5310 prepares students with the knowledge, skills and abilities necessary to make independent judgments about the validity, results, and application of clinical research and to implement evidence-based clinical practice in their careers.

SMED 5312  Research Capstone  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5312 provides students with an intellectual opportunity to integrate their knowledge of research basics and clinical skills, with a possibility for publication or presentation.

SMED 5313  Biological Statistics for Athletic Training  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5313 presents a study of the basic biological statistical concepts and their application to research problems in Athletic Training. Knowledge of biological statistics is imperative as students are required to participate in a case study, critically appraised topic, and/or research project. Students are encouraged to publish thus adding to the body of knowledge within Athletic Training. Topics will include issues related to descriptive and inferential statistics.

SMED 5321  Lower Extremity Assessment, Evaluation and Management  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5321 provides students with general knowledge of evaluation techniques of athletic injuries to the lower extremities including history taking, observation, palpation, neurologic and orthopedic testing as well as its acute management and documentation. Students will learn to utilize critical thinking skills to evaluate differential diagnosis and analyze the patient’s signs and symptoms to defend a clinical diagnosis.

SMED 5322  Upper Extremity Assessment, Evaluation and Management  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5322 provides students with general knowledge of evaluation techniques of athletic injuries to the upper extremities including history taking, observation, palpation, neurologic and orthopedic testing as well as its acute management and documentation. Students will learn to utilize critical thinking skills to evaluate differential diagnosis and analyze the patient’s signs and symptoms to defend a clinical diagnosis.

SMED 5323  Head, Neck & Spine Extremity Assessment, Evaluation and Management  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5323 provides students with general knowledge of evaluation techniques of athletic injuries to the head, neck and spine including history taking, observation, palpation, neurologic and orthopedic testing as well as its acute management and documentation. Students will learn to utilize critical thinking skills to evaluate differential diagnosis and analyze the patient’s signs and symptoms to defend a clinical diagnosis.

SMED 5324  General Medical Conditions in the Athlete  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5324 will provide students with lectures, discussions, and laboratory activities concerning general medical conditions, evaluation techniques, and athletic injuries to internal organs. In addition, interprofessional working relationships with other health and medical professionals and the role of an athletic trainer within the healthcare system will be discussed and explored.

SMED 5331  Therapeutic Intervention I  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5331 provides the student with knowledge of current theory and application of therapeutic modalities used in the treatment of musculoskeletal injuries.
SMED 5332 Therapeutic Intervention II  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5332 provides the student with knowledge of current theory and application of therapeutic exercises and manual therapy used in the treatment of musculoskeletal injuries.

SMED 5333 Pharmacology for the Athlete  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5333 will include lectures and discussion of selected sports medicine topics focusing on pharmacology in athletics and activity. Students will examine different classes of medication and their impact on sports and exercise. In addition, inter-professional working relationships with other health and medical professionals and the role of an athletic trainer within the healthcare system will be discussed and explored. Written assignments are designed to provide the student with an opportunity to demonstrate their library research and written communication skills.

SMED 5334 Emerging Practices in Athletic Training  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5334 provides students with creative, flexible, and innovative learning experiences on key emerging concepts and techniques that are newly arising within the field of Athletic Training. Content and instruction will examine new technology in the field, emerging theories, legal/ethical challenges, and changes, as well as other evolving issues within the profession of athletic training.

SMED 5335 Athletic Training Seminar  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5335 provides students with an organized study session to prepare students to be eligible to sit for the Board of Certification (BOC) national examination. This course is in line with the 6th Role Delineation Study from the BOC.

SMED 5341 Law & Ethics in Athletic Training  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5341 provides students with knowledge concerning the legal and ethical issues associated with the practice of athletic training and other health care fields. This course examines the legal principles including negligence, tort, and liability as well as other issues concerning those practicing athletic training. In addition, this course will examine moral and ethical issues in the field which may or may not align with the legal issues in the field. This course is designed to engage students in critical thinking and to challenge them to begin to think about their lives from a legal and ethical perspective.

SMED 5342 Sports Psychology in Athletic Training  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5342 includes aspects of psychology for understanding and explaining behaviors in the context of exercise and sport. Discussions of identifying high-risk individuals, counseling, and referring individuals for help are emphasized. This course will also examine the relationships between psychological factors and human physical activity while obtaining peak performance. Evaluating published research, particularly theory and research methodology practices will be required. Motivational interviewing and behavioral change theory will be briefly discussed.

SMED 5343 Administration, Leadership, & Professional Development in Athletic Training  
3 Semester Credit Hours (3 Lecture Hours)  
SMED 5343 provides the general knowledge and application of athletic training administration including facility design, insurance claims, liability issues, and injury and treatment records. This course is designed to engage students in critical thinking and to challenge them to begin to think about their lives from a professional leadership perspective. This course is in line with the current Role Delineation Study from the BOC.

SMED 5390 Special Topics  
3 Semester Credit Hours (3 Lecture Hours)  
Contemporary issues in Athletic Training: topics vary with professional identification of participants.

SMED 5696 Directed Individual Study  
1-6 Semester Credit Hours (1 Lecture Hour)  
requires departmental approval. Directed individual study will be designed to address problems by students with specific needs. May be repeated when topics vary. Programs will be designed for individual cases through special permission of the Department Chair and Dean.