

# Sports Medicine

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Master's in Athletic Training (<https://catalog.und.edu/graduateacademicinformation/departmentalcoursesprograms/sportsmedicine/smed-masters/>)

## **SMED 501. Introduction to Athletic Training. 3 Credits.**

Overview of the profession of athletic training. Discussions extend to the role and responsibility of the athletic trainer as well as functioning as a part of the healthcare landscape. Stresses importance of communication as a medical professional. Corequisite: SMED 520. SS.

## **SMED 510. Anatomy for Athletic Trainers I. 1 Credit.**

A course to learn and palpate lower extremity human anatomy structures and their functions. F.

## **SMED 511. Anatomy for Athletic Trainers II. 1 Credit.**

A course to learn and palpate upper extremity and spine human anatomy structures and their functions. S.

## **SMED 520. Beginning Clinical Practicum I. 4 Credits.**

Initial clinical experience for students to apply information learned in didactic sessions to real-life settings with a preceptor. Exposure to primary assessment and initial care. Appreciation of the role of the athletic trainer in the healthcare system. SS.

## **SMED 521. Beginning Clinical Practicum II. 8 Credits.**

Second clinical experience to apply the knowledge and skills in injury examination and management as well as pharmacological principles. Application of rehabilitation principles. Improvement of decision making skills for lower extremity injuries. Recognition of cardiovascular and respiratory conditions in addition to their normal states. F.

## **SMED 522. Beginning Clinical Practicum III. 8 Credits.**

Third clinical experience to apply the knowledge and skills in injury examination and management. Further analysis of pharmacological effects. Improvement of decision making skills for upper extremity and spine injuries as well as rehabilitation. Improvement of clinical decision making skills to build patient care plans. S.

## **SMED 530. Risk Reduction and Injury Management in Athletic Training. 3 Credits.**

Care and management involved in patients with emergency needs such as spinal injuries. Knowledge and execution of the emergency action plan. Acquisition of knowledge and skills of athletic trainer as a first responder. Assessment of environmental risks to the patient and management of the conditions associated with the risks. Application of supportive devices involved in extremity injuries. Corequisite: SMED 520. SS.

## **SMED 540. Orthopedic Examination of the Lower Extremity. 3 Credits.**

Recognition and management of lower extremity injuries of both acute and chronic nature. Acquisition of knowledge and skills for comprehensively evaluating lower extremity disorders. Development of clinical reasoning in injury diagnosis. Recognition and response in emergency situations involving lower extremity injuries. F.

## **SMED 541. Orthopedic Examination of the Upper Extremity. 3 Credits.**

Recognition and management of upper extremity injuries of both acute and chronic nature. Acquisition of knowledge and skills for comprehensively evaluating upper extremity disorders. Development of clinical reasoning in injury diagnosis. Recognition and response in emergency situations involving upper extremity injuries. S.

## **SMED 542. Orthopedic Evaluation of the Spine. 3 Credits.**

Recognition and management of the spinal injuries of both acute and chronic nature. Acquisition of knowledge and skills for comprehensively evaluating disorders of the spine. Development of clinical reasoning in injury diagnosis. Recognition and response in emergency situations involving spinal injuries. S.

## **SMED 550. General Medical Conditions. 3 Credits.**

Assessment and management of cardiovascular, respiratory and pulmonary condition of the patients. Decisions for proper referrals for patients with cardiovascular, respiratory or pulmonary abnormalities. Ability to locate quality evidence for assessing, treating, managing and referring patients with cardiovascular, respiratory and pulmonary conditions. F.

## **SMED 590. Directed Studies in Athletic Training. 1-4 Credits.**

An in-depth study in a subject area selected by the student under tutorial supervision. Repeatable to 8.00 credits. On demand.

## **SMED 620. Advanced Clinical Practicum I. 4 Credits.**

Clinical experience to apply advanced rehabilitation techniques. Exposure to psychosocial strategies and evidence-based principles regarding athletic training practice. Construction and clinical application of emergency action plan. SS.

## **SMED 621. Advanced Clinical Practicum II. 8 Credits.**

Application of biomechanical principles through clinical experience. Advanced individualized patient care plan through clinical experience. Advanced experience on clinical decision making. F.

## **SMED 622. Advanced Clinical Practicum III. 8 Credits.**

Advanced clinical experience for making transition to clinical practice. Implementation of a performance improvement program. Incorporation of knowledge in nutrition for effective practice. S.

## **SMED 640. Recognition and Management of Brain Trauma. 3 Credits.**

Recognition and examination of traumatic brain injuries including emergency triage and management. Development of a comprehensive care plan including referral, treatment, education and return to learn/play. F.

## **SMED 650. Advanced General Medical Conditions. 3 Credits.**

Course Description: Recognition and management of select general medical conditions including referral. Covers advanced topics on select diseases and illnesses. Further development of abilities to locate quality evidence for assessing, treating, managing and referring patients. F.

## **SMED 660. Advanced Physical Agents in Athletic Training. 4 Credits.**

Pharmacodynamics, pharmacokinetics and the use of various drugs used as a part of treatment plan. Discussions regarding the abuse of some common drugs and their effects on the body. Relationship between physical agents and rehabilitation. Role of pharmacists in safe and effective use of physical agents. SS.

## **SMED 661. Human Performance and Development. 3 Credits.**

Examination of the effects of exercise on the human body and implications on injury reduction. Discussions on performance improvements through assessment, nutrition, psychology and periodization. Exposure to various methods of exercise for performance improvement, rehabilitation and prevention. S.

## **SMED 670. Organization and Administration in Athletic Training. 3 Credits.**

Application of administrative principles to the operation of athletic training healthcare management. Decision making process and factors in operational management. Knowledge and understanding of financial, legal, human resources, strategic management and ethics of athletic training operations. S.

## **SMED 680. Psychosocial Aspects in Athletic Training. 2 Credits.**

Recognition of mental health conditions. Management of referral plans for patients with mental health conditions. Evaluation of environment for participation for patients with mental health conditions.

## **SMED 681. Scientific Concepts in Athletic Training. 2 Credits.**

Analysis of human movements using the principles of biomechanics. Application of biomechanical principles to reduce injury risks and to address patient goals. Application of biostatistics to comprehension of literature and to formulation of a research project. SS.

## **SMED 690. Internship. 4-8 Credits.**

Off-campus athletic training experience designed to expose the student to alternate concepts of care. Repeatable up to 8 credits with instructor permission. Repeatable to 8.00 credits. On demand.

## **SMED 691. Scholarly Project. 1 Credit.**

Collaborative or individual project designed to advocate for the profession of athletic training. F, S.