

# Athletic Training (AT)

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## Courses

### **AT 541. Gross Human Anatomy. 3 Credits.**

Investigation of human musculoskeletal and neuromuscular anatomy through hands-on study of human cadavers. Students will learn detailed human anatomy for a specific area of interest by dissecting and identifying anatomical components of that area.

P: Acceptance into the MAT.

### **AT 551. Clinical Kinesiology. 3 Credits.**

Fundamental concepts of functional anatomy and biomechanics related to movement and injury. An introduction to palpation, goniometry, and manual muscle testing skills will also be presented.

P: Admitted to the MAT.

### **AT 561. Health Promotion Through the Lifespan. 2 Credits.**

This course examines the role of the athletic trainer in community health and develops applied knowledge and skills in health behavior and health promotion to meet the health needs of diverse communities.

P: AT 551

Fall Only.

### **AT 601. Foundational Practices in Athletic Training. 2 Credits.**

This course provides students in athletic training an introduction to the foundational practices of the profession. Topics covered include basic assessment procedures, and injury prevention and management techniques.

P: Acceptance into the MAT.

### **AT 610. Psychosocial Aspects of Injury and Healing. 2 Credits.**

This course will examine the psychological factors involved in injury and the rehabilitation process. Topics covered include impact of stress on injury, psychological reactions to injury, adherence to injury rehabilitation programs, the application of psychological skills (e.g., goal setting, imagery, confidence) and returning to performance after injury.

P: AT 601.

### **AT 620. Evaluation and Management of Acute/Emergent Conditions. 3 Credits.**

This course is designed to provide athletic training students with the knowledge and experience to evaluate and manage patients with acute conditions, including triaging conditions that are life threatening. Conditions covered in this class include, but are not limited to: Cardiac compromise, cervical spine injury, traumatic brain injury, drug overdose, and wound care.

P: Acceptance into the MAT.

### **AT 700. Evidence Based Patient Care. 2 Credits.**

This course will introduce students to the concepts of integrating the best available evidence, clinical expertise, and the needs of the patient to maximize patient outcomes. Topics covered include development of clinical questions, diagnostic accuracy, and use of outcome measures.

P: Admitted to MAT

Fall Only.

### **AT 705. Therapeutic Interventions. 4 Credits.**

Theories and concepts in the appropriate application and utilization of therapeutic modalities and exercise in the treatment of orthopedic injuries. Topics covered include physiological responses, indications, contraindications, and appropriate use and selection of therapeutic modalities and exercise.

P: Acceptance into the MAT.

### **AT 709. Nutritional and Pharmacological Interventions. 2 Credits.**

Introduction to principles of nutrition and pharmacology for athletic trainers. Nutrition component stresses general nutrition concepts with a focus on health promotion and therapeutic nutrition. Pharmacology focus is related to overview of pharmacology, review of pharmacokinetics, drug classifications, and administration of therapeutic medications commonly prescribed for acute and chronic health problems and injuries.

P: AT 705.

### **AT 710. Evaluation and Management of Musculoskeletal Injury I. 4 Credits.**

This course teaches injury evaluation and management techniques of the lower extremity and lumbosacral region. Topics covered include methods of evaluation, immediate management, and rehabilitation for the foot, ankle, knee, hip, pelvis, and lumbar spine.

P: AT 705

Fall Only.

### **AT 720. Evaluation and Management of Musculoskeletal Injury II. 4 Credits.**

This course teaches injury evaluation and management techniques of the upper extremity and thorax and cervical regions. Topics covered include methods of evaluation, immediate management, and rehabilitation for the shoulder, elbow, forearm, wrist, hand and cervical spine.

P: AT 710

Spring.

**AT 730. Evaluation and Management of Head Injuries. 2 Credits.**

This course teaches injury evaluation and management techniques of the head. Topics covered include methods of evaluation, immediate management, and rehabilitation for traumatic brain injury and facial injuries.

P: AT 710

Spring.

**AT 740. Evaluation and Management of General Medical Conditions. 3 Credits.**

This course teaches recognition, evaluation, immediate management, and treatment of non-orthopedic medical conditions. Students will gain the knowledge and skills required to recognize, refer, and treat, as appropriate, internal injuries, general medical conditions, and disabilities of athletes and others involved in physical activity.

P: AT 709, 710, 720.

**AT 745. Interprofessional Education Seminar. 1 Credit.**

Contemporary health care involves teams to provide care to patients with a multitude of injuries and other medical conditions. This course provides students an opportunity to learn about the roles of various members of the health care team, and how to effectively work in teams with members from other health professions.

P: AT 700

Spring.

**AT 750. Athletic Training Administration. 2 Credits.**

An introduction to management, leadership, financial strategies, professional development and legal issues related to the athletic training setting.

P: AT 601.

**AT 755. Healthcare Communication. 1 Credit.**

Provides athletic training students the opportunity to improve patient communication skills while working directly with a physician in the evaluation and management of injuries sustained during physical activity.

P: AT 750

Fall Only.

**AT 760. Clinical Education I. 2 Credits.**

This course allows the athletic training student the opportunity to develop proficiency in athletic training clinical skills in a laboratory and clinical setting, with an emphasis placed on real-life patient interaction. The focus of this course is on equipment intensive experiences and the evaluation and management of acute and emergent conditions during a 14-week clinical education experience.

P: AT 601 & AT 710

Fall Only.

**AT 761. Clinical Education II. 2 Credits.**

This course allows the athletic training student the opportunity to develop proficiency in athletic training clinical skills in a laboratory and clinical setting, with an emphasis placed on real-life patient interaction. The focus of this course is on the evaluation and management of musculoskeletal injury and illness in the extremities during a 14-week clinical education experience.

P: AT 760

Spring.

**AT 762. Clinical Education III. 2 Credits.**

This course allows the athletic training student the opportunity to develop proficiency in athletic training clinical skills in a laboratory and clinical setting, with an emphasis placed on real-life patient interaction. The focus of this course is on the evaluation and management of head injuries and general medical conditions during a 7-week clinical education experience.

P: AT 761

Fall Only.

**AT 763. Clinical Education IV. 2 Credits.**

This course is designed to allow students to demonstrate proficiency in athletic training clinical skills during a 7-week immersive clinical experience.

P: AT 762

Fall Only.

**AT 764. Clinical Education V. 6 Credits.**

This course is designed to allow students to demonstrate proficiency in athletic training clinical skills during a 14-week or two 7-week immersive clinical experience.

P: AT 763

Spring.

**AT 780. Research Methods and Statistics in Athletic Training. 3 Credits.**

Interpretation of statistical procedures and research design commonly used in athletic training research. Prepares students to conduct research projects related to the field of athletic training.

P: AT 750.

**AT 789. Athletic Training Research Seminar. 2 Credits.**

Students will explore research and evidence-based practices within the field of athletic training. Students will begin the process of developing a capstone project in this class.

P: AT 780

Fall Only.

**AT 790. Athletic Training Capstone Project. 3 Credits.**

Students will complete a capstone project related to one of the practice domains in athletic training.

P: AT 780, 789

Spring.