

# Athletic Training (AT)

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## Courses

### **AT 541. Clinical Anatomy & Physiology. 3 Credits.**

Clinical concepts of human anatomy, functional anatomy, and physiology related to movement and injury. Students will learn detailed human anatomy for a specific area of interest by dissecting and identifying anatomical components of that region.

P: MAT and HUM BIOL MAT\_ACC students, or instructor permission.

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

This course will prepare athletic training students for the evaluation and management course sequence. Fundamental concepts of functional anatomy, kinesiology, and biomechanics related to movement and injury will be covered. Palpation and manual muscle testing skills will be presented.

### **AT 561. Health Promotion Through the Lifespan. 3 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. Topics include, health literacy, social determinants of health, and health promotion assessment and interventions.

P: Graduate Standing

Fall Only.

### **AT 601. Foundations of Athletic Training. 3 Credits.**

Introduction to knowledge and skills needed to practice athletic training. Topics covered include history of athletic training, medical terminology, mechanisms of injury and illness, introduction to injury evaluation methods, and injury prevention techniques commonly used in athletic training.

P: Graduate Standing.

### **AT 602. Foundational Skills in Athletic Training. 1 Credit.**

This course teaches students foundational skills used in athletic training. Topics covered include basic assessment procedures, injury prevention and management techniques such as taping and bandaging, protective equipment fitting, and casting and bracing techniques.

P: Graduate standing.

### **AT 605. Therapeutic Interventions I. 2 Credits.**

This course examines the use of therapeutic modalities and pharmacological agents during the healing processes and pain management. Topics covered include physiological responses, indications, contraindications, and appropriate use of therapeutic modalities and pharmacological agents during the injury rehabilitation process.

P: Graduate Student Standing.

### **AT 610. Psychosocial Aspects of Healthcare. 3 Credits.**

This course examines the role of the athletic trainer in protecting and improving the health of people and their communities. Students will develop the knowledge and skills to practice cultural competency, foster cultural humility, and demonstrate respect in client/patient care.

P: Graduate Standing

Spring.

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

This course provides 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: Graduate Standing.

### **AT 630. Movement Dysfunction. 1 Credit.**

This course teaches various movement assessments to identify dysfunctions present in the human body. Understanding human movement and identifying the dysfunctions are the cornerstones of developing holistic treatment plans, injury prevention plans, and sport performance plans.

P: Graduate Standing

Fall Only.

### **AT 651. Clinical Exercise Sciences. 2 Credits.**

Exercise science topics relevant to the practice of athletic training are presented in this course. Topics covered will include material and tissue mechanics, biomechanics of clinical assessment, motor control, metabolism, energy systems, nutrition, biometrics, and physiological monitoring systems.

P: AT 551

Spring.

### **AT 700. Evidence Based Practice I. 3 Credits.**

Introduction to the concepts of integrating the best available evidence, clinical expertise, and the needs of the patient to maximize patient outcomes. Topics include: development of clinical questions, use of diagnostic accuracy measures, disablement models, epidemiology, healthcare informatics, and patient reported outcome research.

P: AT 601, or permission of instructor

Fall Only.

**AT 701. Evidence Based Practice II. 2 Credits.**

Course is a continuation of AT 700. This course covers statistical procedures and research designs commonly used in athletic training research. Athletic Training students will begin the process of developing a research projects related to one of the domains of athletic training.

P: AT 700

Spring.

**AT 705. Therapeutic Interventions II. 3 Credits.**

Students will learn to select and incorporate exercise interventions that align with the patient's care plan. Topics covered include exercises to increase mobility, stability, motor control, cardiovascular training, movement, and task-specific training, and rehabilitation plan development.

P: AT 605

Fall Only.

**AT 709. Nutritional Interventions. 2 Credits.**

Introduction to principles of nutrition for athletic trainers. Content in this course includes general nutrition concepts with a focus on health promotion and therapeutic nutrition.

P: Graduate Standing.

**AT 710. Evaluation and Management of Lower Extremity Injuries. 4 Credits.**

This course covers pathomechanics, clinical evaluation, and management techniques of the lower extremity. Topics covered include methods of evaluation, immediate management, and rehabilitation for the foot, ankle, knee, hip, and pelvis.

P: AT 551

Fall Only.

**AT 720. Evaluation and Management of Head, Neck, and Spine Injuries. 4 Credits.**

This course covers pathomechanics, clinical evaluation, and management techniques of the head, cervical, thoracic, and lumbar regions. Topics covered include methods of evaluation, immediate management, and rehabilitation for head, neck, and spine injuries.

P: AT 710

Spring.

**AT 730. Evaluation and Management of Upper Extremity Injuries. 4 Credits.**

This course covers pathomechanics, clinical evaluation, and management techniques of the upper extremity. Topics covered include methods of evaluation, immediate management, and rehabilitation for the shoulder complex, elbow, forearm, wrist, and hand.

P: AT 720

Spring.

**AT 740. Evaluation and Management of Systemic Conditions. 4 Credits.**

This course teaches clinical evaluation and management of non-orthopedic medical conditions. Students will gain the knowledge and skills required to evaluate, refer, and provide treatment when appropriate for general medical and behavioral health conditions.

P: AT 730.

**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: Graduate Standing

Spring.

**AT 750. Athletic Training Administration. 3 Credits.**

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

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 assessment focus of this course is on equipment intensive experiences, the evaluation and management of acute and emergent conditions, and lower extremity evaluation and management during a 14-week clinical education experience.

P: AT 620

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 assessment focus of this course is on the evaluation and management of musculoskeletal injury and illness in the lower extremities, head, neck, and spine, and upper extremity during a 14-week clinical education experience.

P: AT 760

Spring.

**AT 762. Clinical Education III. 3-6 Credits.**

This clinical experience course may be used as the one required clinical immersion experience. This course allows the athletic training student the opportunity to develop proficiency in athletic training clinical skills, with an emphasis placed on real-life patient interaction. The assessment focus of this course is on the evaluation and management of upper extremity, head, neck, and spine, lower extremity, emergency management, and general medical and behavioral health conditions during a 14-week clinical education experience. Course credits are determined by the clinical setting and length of experience.

P: AT 761

Fall Only.

**AT 763. Clinical Education IV. 3-6 Credits.**

This clinical experience course may be used as the one required clinical immersion experience. This course allows the athletic training student the opportunity to develop proficiency in athletic training clinical skills, with an emphasis placed on real-life patient interaction. Students will demonstrate holistic proficiency in athletic training clinical skills during a 14-week clinical experience. Course credits are determined by the clinical setting and length of experience.

P: AT 762

Spring.

**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: Graduate Standing

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: Graduate Standing.

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

Students will explore research and evidence-based practices within the field of athletic training. Students will begin the process of preparing for the BOC exam.

P: AT 700, 701

Fall Only.

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

Students will finalize their capstone project related to one of the practice domains in athletic training.

P: AT 789

Spring.

**AT 797. Internship. 1-3 Credits.**

Supervised clinical or research experience appropriate to a student's educational and career interests. Internships are supervised by Athletic Training faculty members and require periodic student/faculty meetings.

P: AT 761.

**AT 798. Independent Study. 1-3 Credits.**

Independent study is offered on an individual basis at the student's request and consists of a program of learning activities planned in consultation with a faculty member.

P: AT 700

Fall and Spring.