

# ATHLETIC TRAINING (ATR)

## ATR-5100 Principles of Athletic Training (2 semester hours)

This course is designed to give athletic training students a basis foundation in concepts of the athletic training profession. Topics and skills taught will expand across all five domains of athletic training with increased emphasis on risk reduction, wellness and health literacy.

**Prerequisite(s):** Must be accepted into the Master's Degree Program or have advanced standing in the BS in Exercise Science Athletic Training major.

## ATR-5200 Emergency Medical Response I (2 semester hours)

This course is designed to provide athletic training students with the knowledge and skills necessary to work as an Emergency Medical Responder (EMR) to help sustain life, reduce pain, and minimize the consequences of injury or sudden illness until more advanced medical personnel take over. The course content and activities will prepare the student to make appropriate decisions about the care to provide to the patient in a medical emergency. This course teaches the skills that athletic trainers need to act as a crucial link in the Emergency Medical Services (EMS) system.

**Prerequisite(s):** Must be accepted into the Master's Degree Program or have advanced standing in the BS in Exercise Science Athletic Training major.

### Additional fee required

## ATR-5250 Emergency Medical Response II (2 semester hours)

This course is designed to equip athletic training students with the knowledge and skills necessary to manage acute emergencies. Students will develop an evidence-based approach to the assessment, treatment and triage of emergency medical conditions such as cardiac and respiratory compromise, anaphylaxis, drug overdose, reproductive injury and other injuries and illnesses.

**Prerequisite(s):** ATR-5750 with a grade of "B" or better.

### Additional fee required

## ATR-5300 Clinical Human Anatomy (2 semester hours)

This course focuses on the identification and palpation of anatomical structures within the systems most relevant to athletic training. Additional focus is placed on the interdependent interactions of anatomical structures utilized during human movement and orthopedic injuries.

**Prerequisite(s):** Must be accepted into the Master's Degree Program or have advanced standing in the BS in Exercise Science Athletic Training major.

## ATR-5400 Diagnosis of the Lower Extremity (4 semester hours)

This course emphasizes the theory and practical application of orthopedic injury assessment and diagnosis for the lower extremity. Students will develop an evidence-based approach to orthopedic injury assessment and differential diagnosis by integrating current peer-reviewed research with anatomical considerations and injury pathology. Standard orthopedic assessment techniques will be learned and applied to injuries and illnesses of the lower extremity. Students will learn guidelines for proper documentation and appropriate physician referral as part of the overall assessment process.

**Prerequisite(s):** Must be accepted into the Master's Degree Program or have advanced standing in the BS in Exercise Science Athletic Training major.

## ATR-5410 Diagnosis of the Upper Extremity (4 semester hours)

This course emphasizes the theory and practical application of orthopedic assessment and diagnosis for the upper extremity. Students will develop an evidence-based approach to orthopedic injury diagnosis by integrating current peer-reviewed research with anatomical considerations and injury pathology. Students will develop a foundation for orthopedic injury assessment and differential diagnosis by investigating anatomical considerations associated with injury pathology. Standard orthopedic assessment techniques will be learned and applied to injuries and illnesses of the upper extremity. Students will learn guidelines for proper documentation and appropriate physician referral as part of the overall assessment process.

**Prerequisite(s):** Take ATR-5750 with a grade of "B" or better.

## ATR-5420 Diagnosis of the Head and Spine (2 semester hours)

This course emphasizes the theory and practical application of orthopedic and neurological assessment and diagnosis for the head and spine. Students will be able to evaluate and diagnose traumatic and chronic head and spine pathologies, as well as concussions using current best practices. Students will be able to select and apply appropriate return to play protocol and reevaluate throughout the process.

**Prerequisite(s):** Take ATR-5750 with a grade of "B" or better.

## ATR-5510 Diagnosis of the Lower Extremity (4 semester hours)

This course emphasizes the theory and practical application of orthopedic injury assessment and diagnosis for the lower extremity. Students will develop an evidence-based approach to orthopedic injury assessment and differential diagnosis by integrating current peer-reviewed research with anatomical considerations and injury pathology. Standard orthopedic assessment techniques will be learned and applied to injuries and illnesses of the lower extremity. Students will learn guidelines for proper documentation and appropriate physician referral as part of the overall assessment process. Must be accepted into the Master's Degree Program or advanced standing in the BS in Exercise Science Athletic Training major.

## ATR-5530 Diagnosis of the Upper Extremity (4 semester hours)

This course emphasizes the theory and practical application of orthopedic assessment and diagnosis for the upper extremity and axial skeleton. Students will develop an evidence-based approach to orthopedic injury assessment and differential diagnosis by integrating current peer-reviewed research with anatomical considerations and injury pathology. Students will develop a foundation for orthopedic injury assessment and differential diagnosis by investigating anatomical considerations associated with injury pathology. Standard orthopedic assessment techniques will be learned and applied to injuries and illnesses of the upper extremity. Students will learn guidelines for proper documentation and appropriate physician referral as part of the overall assessment process.

**Prerequisite(s):** ATR-5750 with a grade of "B" or better.

## ATR-5540 Diagnosis of the Head and Spine (2 semester hours)

This course offers the applications in the use of evidence-based practice to assess and diagnose the head and spine. The student will be able to evaluate and diagnose concussions using current best practices, select and design the appropriate return to play protocol, apply the technique, and reevaluate throughout. The student will also be able to evaluate the axial skeleton, including cervical and lumbar pathologies.

**ATR-5550 Therapeutic Interventions I (4 semester hours)**

The chief purpose of this course is to investigate the study and practice of therapeutic interventions used in treating orthopedic-related injuries. This course offers a study of current theories, peer-reviewed research, and applications in the use of evidence-based practice in therapeutic modalities and therapeutic exercise. Students will be able to plan, implement, document, and evaluate therapeutic intervention programs for the treatment, rehabilitation and reconditioning of the injuries and illnesses.

**Prerequisite(s):** ATR-5750 with a grade of "B" or better.

**Additional fee required****ATR-5560 Principles of Taping and Bracing (2 semester hours)**

This course is designed to give athletic training students a basic foundation and skill-set in taping, wrapping, and bracing techniques. Students will master the art and science of athletic taping and bracing through an understanding of the scientific principles and will spend a significant amount of time learning and perfecting the various taping and bracing psychomotor skills. Must be accepted into the Master's Degree Program or advanced standing in the BS in Exercise Science Athletic Training Major.

**Additional fee required****ATR-5600 Principles of Taping, Bracing and Protective Equipment (2 semester hours)**

This course is designed to give athletic training students a foundation and skill-set in taping, wrapping, and bracing techniques. In addition, students will learn, implement and educate on the application of protective equipment.

**Prerequisite(s):** Must be accepted into the Master's Degree Program or have advanced standing in the BS in Exercise Science Athletic Training major.

**Additional fee required****ATR-5750 Clinical Experience Internship I (3 semester hours)**

This is the first of five immersive practicums where students practice and refine the application of didactic course knowledge and skills. This practicum course includes 175 hours of clinical experiences.

**Prerequisite(s):** ATR-5100, ATR-5200, ATR-5300, ATR-5400, and ATR-5600 with a grade of "B" or better.

**Additional fee required****ATR-5760 Clinical Experience Internship II (3 semester hours)**

This is the second of five immersive practicums where students practice and refine the application of didactic course knowledge and skills. This practicum course includes 175 hours of clinical experiences.

**Prerequisite(s):** ATR-5530, ATR-5200 and ATR-5520 with a grade of "B" or better.

**Additional fee required****ATR-5770 Clinical Experience Internship III (3 semester hours)**

This is the third of five immersive practicums where students practice and refine the application of didactic course knowledge and skills. This practicum course includes 250-300 hours of clinical experiences, which vary based on the clinical site. Projects may be completed depending up on the clinical site and hours completed.

**Prerequisite(s):** Take ATR-5760 with a grade of "B" or better.

**Additional fee required****ATR-5810-9 Selected Topics in Athletic Training (Variable semester hours)**

This course will address a specific area of study in athletic training not already covered by other course offerings. Prerequisites vary by topic.

**ATR-6150 Administration of Athletic Training (4 semester hours)**

This course is a study of the standards, policies, and practices in the organization, supervision, and administration of athletic training programs. Emphasis will be placed upon planning, developing, organizing, and directing an athletic training program in a variety of settings. Healthcare administration, professional development, ethics, and legal concepts will be investigated.

**Prerequisite(s):** ATR-6750 with a grade of "B" or better.

**ATR-6200 Psychosocial and Behavioral Healthcare (2 semester hours)**

This course is designed for students to develop an understanding of the psychosocial aspects of physical activity, sport, and healing. Emphasis is placed on the personal, social, and environmental factors that influence risk, response and rehabilitation of injury. Personal factors related to mental health conditions, neurodevelopmental and feeding and eating disorders, and behavioral health are covered within the course.

**Prerequisite(s):** ATR-6750 with a grade of "B" or better.

**ATR-6300 Performance Enhancement for Activity and Sport (2 semester hours)**

This course is designed to provide students with the opportunity to apply fitness/wellness, strength and conditioning, and nutrition concepts to physically active individuals. The course will allow students to utilize fitness, strength and conditioning, and nutrition assessment techniques. Students will develop and implement nutrition and strength and conditioning programs based on individual needs.

**Prerequisite(s):** ATR-6500, ATR-6550, ATR-6200, and ATR-6800 with a grade of "B" or better.

**ATR-6400 Administration of Athletic Training (4 semester hours)**

This course is a study of the standards, policies, and practices in the organization, supervision, and administration of athletic training programs. Emphasis will be placed upon planning, developing, organizing, and directing an athletic training program in a variety of settings. Healthcare administration, professional development, ethics, and legal concepts will be investigated.

**Prerequisite(s):** ATR-6500, ATR-6550, ATR-6200, and ATR-6800 with a grade of "B" or better.

**ATR-6500 Medical Aspects of Athletic Training (4 semester hours)**

This course addresses the various medical aspects encountered in the athletic training profession while caring for athletes. Each major body system will be addressed including common conditions and disease states, specifically in relationship to their effect on sports participation. Students will learn about the etiology, clinical presentation, diagnosis through physical evaluation, and possible treatment options for these conditions. Strategies in prevention and athlete education will occur in each section. Evidence-based practice and peer-reviewed research will be integrated into each topic to establish a foundation for the clinical assessment, diagnosis, and treatment of general medical conditions. All competencies required in the areas of anatomical relationships, mechanism of injury, illness/injury management, pharmacology, and current research will be introduced.

**Prerequisite(s):** ATR-6750 with a grade of "B" or better.

**Additional fee required**

**ATR-6550 Therapeutic Interventions II (4 semester hours)**

This course applies the use of evidence-based practice in therapeutic rehabilitation. The chief purpose of this course is to investigate and apply the advanced study and practice of therapeutic exercise, modalities and manual therapy used in treating sports orthopedic-related injuries. The student will be able to plan, implement, document, and evaluate therapeutic interventions for the rehabilitation and reconditioning of the injuries and illnesses.

**Prerequisite(s):** ATR-6750 with a grade of "B" or better.

**ATR-6750 Clinical Experience Internship IV (3 semester hours)**

This is the fourth of five immersive practicums where students practice and refine the application of didactic course knowledge and skills. This practicum course includes 175 hours of clinical experiences.

**Prerequisite(s):** ATR-5770 with a grade of "B" or better.

**Additional fee required****ATR-6760 Clinical Experience Internship V (3 semester hours)**

This is the fifth of five immersive practicums where students practice and refine the application of didactic course knowledge and skills. This practicum course includes 175 hours of clinical experiences.

**Prerequisite(s):** ATR-6300, ATR-6400, and ATR-6900 with a grade of "B" or better.

**Additional fee required****ATR-6800 Clinical Application of Evidence Based Practice (2 semester hours)**

This course is designed to develop fundamental skills in research design, as well as to enhance the student's understanding of literature searching, reading, and synthesizing of information in athletic training. Students will develop a clinical question and demonstrate competence in using a variety of resources to answer the question using the best available evidence. Students will demonstrate competence of the clinical question through a written literature and presentation to classmates and faculty.

**Prerequisite(s):** ATR-6750 with a grade of "B" or better.

**ATR-6810-9 Selected Topics in Athletic Training (Variable semester hours)**

This course will address a specific area of study in athletic training not already covered by other course offerings. Prerequisites vary by topic.

**ATR-6900 Patient-Centered Care (4 semester hours)**

This course represents the culmination of the student's preparation for professional practice. This course assesses the students' accomplishment and achievement of the educational standards to become an athletic trainer. Students will integrate didactic course knowledge and practicum experiences to complete quizzes, exams, projects and standardized patient cases across diverse patients with various illnesses and injuries.

**Prerequisite(s):** ATR-6200, ATR-6500, ATR-6550, and ATR-6800 with a grade of "B" or better.