

# ATHLETIC TRAINING (ATTR)

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## Courses

### **ATTR 560 FUNDAMENTAL CONCEPTS AND COMPETENCIES IN ATHLETIC TRAINING (3)**

Knowledge, skills, and professional foundations of athletic training and the role of the athletic trainer as a multi-skilled health care professional. The primary content areas include: health care organization and administration; the pre-participation physical examination; the clinical evaluation process; protective taping and wrapping; and protective equipment. Prerequisite: program admission.

### **ATTR 565 HEALTH INFORMATICS AND QUALITY IMPROVEMENT (3)**

Organizational, administrative, and management theories pertaining to the delivery of health care by the athletic trainer. The primary content areas include: program management; information management; financial management; development and maintenance of sport medicine facilities; health insurance systems/reimbursement for services; risk management and legal considerations; and administrative issues in educational and clinical settings. Prerequisite: program admission.

### **ATTR 602 PRACTICUM I: CLINICAL APPLICATION OF ATHLETIC TRAINING COMPETENCIES (3)**

Clinical experience designed to provide students with authentic, real-time opportunities to practice and integrate athletic training knowledge, skills, and clinical abilities. Completed under the supervision of a preceptor, the clinical proficiency focus is on basic, fundamental athletic training skills and organization and administration related skills. Prerequisites: ATTR 560; ATTR 565.

### **ATTR 604 PRACTICUM II: CLINICAL CARE OF THE LOWER EXTREMITY (3)**

Clinical experience designed to provide students with authentic, real-time opportunities to practice and integrate athletic training knowledge, skills, and clinical abilities. Completed under the supervision of a preceptor, the clinical proficiency focus is emergency care, evaluation of lower extremity injuries/conditions, and use of therapeutic modalities in injury management and rehabilitation. Prerequisites: ATTR 602; ATTR 615; ATTR 622; ATTR 625.

### **ATTR 606 PRACTICUM III: CLINICAL CARE OF THE UPPER EXTREMITY (3)**

Clinical experience designed to provide students with authentic, real-time opportunities to practice and integrate athletic training knowledge, skills, and clinical abilities. Completed under the supervision of a preceptor, the clinical proficiency focus is the evaluation of upper extremity injuries/conditions and the use therapeutic exercise in rehabilitation. Prerequisites: ATTR 604; ATTR 623; ATTR 626.

### **ATTR 615 ACUTE AND TRAUMATIC INJURY: ASSESSMENT AND MANAGEMENT (3)**

Knowledge and clinical skills essential for evaluation and management of physically active individuals with acute life-threatening or emergent conditions. The primary content includes the assessment, diagnosis, and immediate management of patients with potentially life-threatening or emergent conditions as well as specific acute life-threatening or emergent conditions commonly seen with physically active individuals. Prerequisites: ATTR 560; ATTR 565.

### **ATTR 622 ACUTE AND REHABILITATIVE CARE: THERAPEUTIC MODALITIES (3)**

Evidence-based and outcome-based types of modalities applied in the treatment and rehabilitation of disease and injury to physically active individuals, including the basic theory and principles of thermal, acoustic, electrical, light, and mechanical modalities and expected physiological responses during and following intervention. Prerequisite: ATTR 560.

### **ATTR 623 REHABILITATIVE CARE: THERAPEUTIC EXERCISE (3)**

Evidence-based and outcome-based types of exercise applied in the treatment and rehabilitation of disease and injury to physically active individuals, including the basic principles of range of motion, strength, proprioception, performance-specific, and functional exercises. Prerequisite: ATTR 622.

### **ATTR 625 EVIDENCE BASED ASSESSMENT OF THE LOWER EXTREMITY (3)**

Knowledge, clinical examination skills, and application of the principles of examination, diagnosis, and management of lower extremity musculoskeletal injuries/conditions sustained by physically active individuals. The primary content areas include clinical anatomy, clinical examination, on-site examination, and on-site management of injury to the lower extremities and the etiology and pathophysiology of common lower extremity injuries sustained by physically active individuals. Prerequisites: ATTR 560; ATTR 565.

### **ATTR 626 EVIDENCE BASED ASSESSMENT OF THE UPPER EXTREMITY (3)**

Knowledge, clinical examination skills, and application of the principles of examination, diagnosis, and management of upper extremity musculoskeletal injuries/conditions sustained by physically active individuals. The primary content areas include clinical anatomy, clinical examination, on-site examination, and on-site management of injury to the upper extremities and the etiology and pathophysiology of common upper extremity injuries. Prerequisite: ATTR 625.

### **ATTR 627 EVIDENCE BASED ASSESSMENT OF THE HEAD AND SPINE (3)**

Knowledge, clinical examination skills, and application of the principles of examination, diagnosis, and management of injuries/conditions to the axial region sustained by physically active individuals. The primary content areas include clinical anatomy, clinical examination, on-site examination, and on-site management of injuries/ conditions involving the axial region and the etiology and pathophysiology of common injuries/conditions involving the axial region. Prerequisites: ATTR 625; ATTR 626.

### **ATTR 650 HUMAN PERFORMANCE OPTIMIZATION (3)**

Comprehensive, systematic, and integrated training approaches to enhancing performance and reducing injury susceptibility of physically active individuals. The primary content areas include components of integrated performance training, design and application of sport performance training programs, and injury prevention strategies for the major joints and regions of the body. Prerequisites: ATTR 623; ATTR 626.

### **ATTR 668 ADVANCED DIAGNOSTIC IMAGING AND PHARMACOLOGY (3)**

The principles of diagnostic imaging and testing and their role in the diagnostic process is one component of this course. The primary topics in this area include principles and types of diagnostic imaging, the use of diagnostic imaging in determining pathologies, interpretation and analysis of diagnostic imaging, and clinical decision making. A second component of the course is the use of therapeutic medications in the treatment and rehabilitation of injuries/conditions sustained by physically active individuals. The primary topics in this area include basic principles of pharmacotherapies and application of clinical decision-making skills regarding pharmacodynamics and pharmacokinetics. Prerequisites: ATTR 623; ATTR 627.

### **ATTR 681 EPIDEMIOLOGY AND RESEARCH METHODS IN ATHLETIC TRAINING (3)**

Concepts of epidemiology and research methodology as applied to the discipline of athletic training, including the knowledge and skills required to critically analyze and use evidence in athletic training and related fields to examine injury pathology, prevention, assessment, diagnosis, immediate management, and therapeutic intervention. The primary content areas include epidemiological measures, healthcare informatics, quantitative and qualitative research, diagnostic accuracy, critical appraisal, clinical prediction, disablement models, and patient-oriented outcomes assessment. Prerequisites: ATTR 622; ATTR 625.

### **ATTR 701 MAXIMIZING REHABILITATION INTERVENTIONS (3)**

Theoretical principles, development, and implementation of a comprehensive rehabilitation program for injuries/conditions sustained by physically active individuals. Knowledge, clinical skills, and application of the principles of rehabilitation designed to enhance function by identifying, remediating, and preventing impairments and activity restrictions to maximize participation specific to the major joints and regions of the body will be addressed. Prerequisites: ATTR 622; ATTR 623.

### **ATTR 702 PATHOPHYSIOLOGY OF MEDICAL CONDITIONS (3)**

Current, evidence-based assessment and treatment for medical conditions and diseases that affect the physically active population. The primary content areas include specific conditions and diseases of the body/body systems (e.g., cardiovascular; gastrointestinal; neurological; ear, nose, and throat; infectious diseases; systemic disorders) and relevant anatomy and physiology, signs and symptoms, referral and diagnostic tests, treatment and return to participation, prognoses, and prevention. Prerequisites: ATTR 622 and ATTR 625.

### **ATTR 703 PRACTICUM IV: COMPREHENSIVE PATIENT CENTERED CARE (9)**

Immersive clinical experience designed to provide students with authentic, real-time opportunities to analyze, synthesize, integrate, and apply athletic training knowledge, skills, and clinical abilities. During this full-time experience, under the supervision of a preceptor, students will engage in the full scope of athletic training clinical practice (e.g., injury prevention; assessment and diagnosis; emergency and acute care; rehabilitation; reconditioning; return to sport/activity) as part of a sports medicine team. Prerequisites: ATTR 606; ATTR 701.