

ATHLETIC TRAINING (ATTR)

ATTR 2110. Taping and Bandaging. 1 Hour.

This skills-based course explores the appropriate utilization and application of preventative, therapeutic, and rehabilitative taping and bandaging used in the athletic training profession. The wrapping and bandaging of various extremities susceptible to injury in sport and activity are emphasized in this course.

ATTR 2300. Intro to Athletic Training. 3 Hours.

This course is an introduction to the profession of Athletic Training. Topics include methods of care, treatment, and rehabilitation of athletic injuries. Laboratory experiences are provided to assist the student with athletic injury scenarios. This course is offered in the Fall only.

Prerequisite: Department Approval.

ATTR 3370. Prevention & Care of Injuries. 3 Hours.

This course includes instruction and laboratory work in the care and prevention of injuries. It is designed to meet the needs of the athletic coach and physical education teacher.

Prerequisite: BIOL 2401 or BIOL 2403, and 45 Credit Hours or Department Approval.

ATTR 4369. Therapeutic Exercise Interventions. 3 Hours.

This course will focus on therapeutic exercise for a variety of injuries and conditions common in sport and exercise settings. Emphasis will be placed on timing and healing phases as indicators of appropriate interventions. Indications, contraindications, and precautions of various interventions will be included. This course is recommended for those students pursuing the allied health fields (e.g. physical and occupational therapy, athletic training, chiropractic, etc...)

Prerequisite: ATTR 3370 and BIOL 2403 or BIOL 2401.

ATTR 5111. Lower Extremity Injuries Lab. 1 Hour.

Students apply practical skills in the areas of evaluation, diagnosis, care, and referral of lower-extremity musculoskeletal pathologies. Course content includes evaluation skills and clinical decision-making that allow for the development of a clinical diagnosis, appropriate referral strategy, and a plan of care for lower-extremity injuries and conditions. Co-requisite: ATTR 5311.

Prerequisite: ATTR 5310.

ATTR 5112. Upper Extremity Injuries Lab. 1 Hour.

Students apply practical skills in the areas of evaluation, diagnosis, care, and referral of upper-extremity orthopedic injuries. Course content includes evaluation skills and clinical decision-making that allows for the development of clinical diagnoses procedures including the assessment of various musculoskeletal conditions, the selection of appropriate referral strategies, and the development of plans of care for upper-extremity injuries and conditions. Co-requisite: ATTR 5312.

Prerequisite: ATTR 5310, ATTR 5311, and ATTR 5111.

ATTR 5115. Non-Orthopedic Pathologies Lab. 1 Hour.

Students apply practical skills and techniques required to assess, manage, and refer non-orthopedic pathologies that occur in active populations. Course content includes evaluation skills and clinical decision-making that allow for the development of clinical diagnoses procedures including the assessment of various non-orthopedic conditions, the selection of appropriate referral strategies, and the development of plans of care for the conditions that may occur in the cardiovascular, respiratory, endocrine, gastrointestinal, genitourinary, integumentary, and reproductive body systems. Co-requisite: ATTR 5315.

Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5121. Prehospital Emergency Medicine and Acute Care Lab. 1 Hour.

Students perform the skills necessary to function as both an EMT–Basic and a Certified Athletic Trainer (ATC). Students practice skills to provide care and transport for critical and emergent patients as part of an emergency medical team. Students will use specific systems that both EMTs and Athletic Trainers employ in the field. Upon completion of this course, students will be eligible to sit for the National Registry Certification for Emergency Medical Technician – Basic (NREMT-B).

Prerequisite: Graduate Standing.

ATTR 5130. Therapeutic Intervention I Lab. 1 Hour.

Students apply practical skills in the application of skills in the areas of therapeutic exercise and therapeutic medications used to treat impairments due to injury or illness. This laboratory includes instruction, practice, and evaluation of clinical skills related therapeutic interventions in the treatment of pain and deficiencies in movement, strength, endurance, speed, neuromuscular control, coordination, agility, cardiorespiratory fitness, and activity specific skills. Co-requisite: ATTR 5330.

ATTR 5131. Therapeutic Intervention II Lab. 1 Hour.

Students apply practical skills in the areas of therapeutic modalities and manual therapies used to treat impairments due to injury or illness. Students demonstrate skills related to cryotherapy, thermotherapy, electrical stimulations, ultrasound, diathermy, light therapy, low level laser, traction, intermittent compression, and manual therapies.. Co-requisite: ATTR 5331.

ATTR 5210. Clinical Experiences in Athletic Training I. 2 Hours.

Students demonstrate skill proficiency in a practice setting under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, and assessment of lower extremity pathologies. This course prepares students for the level-one designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.

Prerequisite: Admission to the Athletic Training Program, ATTR 5300, ATTR 5310, ATTR 5320.

ATTR 5220. Clinical Experiences in Athletic Training II. 2 Hours.

Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, and integration of therapeutic modalities and medications. This course prepares students for the level-one designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.

Prerequisite: Admission to the Athletic Training Program, ATTR 5210, ATTR 5311, ATTR 5111, ATTR 5330, and ATTR 5130.

ATTR 5230. Clinical Experiences in Athletic Training III. 2 Hours.

Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, assessment of head and face injuries, and integration of therapeutic interventions. This course prepares students for the level-two designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Clinical Education Coordinator prior to beginning the required 250 hours of the clinical experience.

Prerequisite: Admission to the Athletic Training Program, ATTR 5220, ATTR 5331, ATTR 5131, and ATTR 5313.

ATTR 5240. Clinical Experiences in Athletic Training IV. 2 Hours.

Students demonstrate skill proficiency in practice settings under the supervision and guidance of a clinical preceptor. Clinical skills practiced and evaluated in the course include injury prevention and protective strategies, care and management of acute injuries and emergency situations, assessment of lower and upper extremity pathologies, assessment of head, face, spine and pelvis injuries, and integration of therapeutic interventions. This course prepares students for the level-two designation to enable them to practice skills in real-patient contexts. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 200 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.

Prerequisite: Admission to the Athletic Training Program, ATTR 5350, ATTR 5314, KINE 5374, and HLTH 5378.

ATTR 5300. Injury Prevention and Protective Strategies. 3 Hours.

Students examine athletic training through a public health lens and explore injury prevention and protection through data collection and implementation of evidence-based strategies. Course content includes strategies used in athletic training such as the application of protective equipment, taping, bracing, splinting, and casting.

ATTR 5310. Clinical Evaluation and Assessment Fundamentals. 3 Hours.

Students learn skills required for the effective palpation of anatomical structures, assessment of range of motion and strength, neurological screens, and functional assessment screens including qualitative postural and gait analysis. The skills, techniques, and processes taught in the course prepare students for successful completion of clinical examinations.

ATTR 5311. Lower Extremity Injuries. 3 Hours.

Students learn the skills and techniques required to conduct a patient evaluation, develop a clinical diagnosis, refer the patient to appropriate health care providers, and design a plan of care for patients with common lower-extremity injuries and conditions. Co-requisite: ATTR 5111.

Prerequisite: ATTR 5310.

ATTR 5312. Upper Extremity Injuries. 3 Hours.

Students participate in a comprehensive overview of common musculoskeletal injuries and conditions related to the anatomical upper-extremity including the shoulder, elbow, wrist, hand, and fingers. Course content includes the proper evaluative procedures and assessments of various pathologies, the development of clinical diagnoses, the appropriate referral of patients, and the formation of plans of care for common upper-extremity injuries and conditions. Co-requisite: ATTR 5112.

Prerequisite: ATTR 5310, ATTR 5311, and ATTR 5111.

ATTR 5313. Head and Facial Injuries in Sport. 3 Hours.

Students examine head and facial injuries and related pathologies experienced in sport and exercise contexts. Course content focuses on the impact of guiding laws, rules, and current scientific evidence that influence the assessment, care, and return to activity decisions for patients.

Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5314. Spine and Pelvis Injuries. 3 Hours.

Students develop the skills and techniques required to assess and manage injuries to the spine, thorax, abdomen, and pelvis. Students perform patient evaluations and interventions to care for the spine and pelvic injuries most often associated with athletic injuries.

Prerequisite: ATTR 5310, ATTR 5311, ATTR 5111, ATTR 5312, ATTR 5112, and ATTR 5313.

ATTR 5315. Non-Orthopedic Pathologies in Sport and Exercise. 3 Hours.

Students examine the practical skills and techniques required to conduct an evaluation of the condition, develop a clinical diagnosis, appropriately refer, and develop a plan of care for non-orthopedic conditions experienced in active populations. Course content includes the following body systems: cardiovascular, respiratory, endocrine, gastrointestinal, genitourinary, integumentary, and reproductive. Co-requisite: ATTR 5115.

Prerequisite: ATTR 5300, ATTR 5310, and ATTR 5320.

ATTR 5320. Acute and Emergency Care in Athletic Training. 3 Hours.

Students learn the practical skills and techniques required to provide immediate care and appropriately manage acute and emergency conditions. Course content focuses on acute and emergency conditions that arise in sport and exercise contexts.

ATTR 5321. Prehospital Emergency Medicine and Acute Care. 3 Hours.

Students didactically acquire knowledge and skills necessary to cognitively understand emergency situations and care for and transport critical and non-critical patients as part of an emergency medical team. Students learn how to apply care for emergency conditions such as severe bleeding, multi-systems trauma, heat- and cold-related illnesses, allergic reactions, musculoskeletal injuries, cardiorespiratory emergencies, as well as a variety of conditions that may lead to sudden death. Upon completion of this course, students will be eligible to sit for the National Registry Certification for Emergency Medical Technician – Basic (NREMT-B).

Prerequisite: Graduate Standing.

ATTR 5330. Therapeutic Interventions I. 3 Hours.

This course includes the study of fundamental principles of therapeutic exercise, contemporary strength training and conditioning, along with pharmacological principles. Students acquire techniques and timing protocols associated with therapeutic interventions and are prepared to effectively implement, progress, and regress therapeutic exercises, during the patient healing and recovery phases, for pathologies that typically occur in active populations. Co-requisite: ATTR 5130.

ATTR 5331. Therapeutic Interventions II. 3 Hours.

Examines theories, principles, and clinical application of therapeutic modalities and manual therapies that are commonly utilized to treat pathologies in an active population. Students are prepared with the skills and theoretical knowledge required to determine appropriate interventions based on phases of healing, indications, contraindications, and precautions. A patient-centered approach is utilized to determine appropriate care plans. Co-requisite: ATTR 5131.

ATTR 5340. Administration in Athletic Training. 3 Hours.

Students investigate the organizational, professional, and management skills required to work in the athletic training profession. Course content includes risk management, budgeting, policy development, facility design, electronic medical records, medical billing, and management strategies.

Prerequisite: ATTR 5300, ATTR 5320, HLTH 5371, and HLTH 5378.

ATTR 5350. Immersive Clinical Experiences in Athletic Training. 3 Hours.

Students demonstrate skill proficiency in a practice setting under the supervision and guidance of a clinical preceptor. The practice-intensive clinical experience allows students to experience the totality of patient care provided by practicing Athletic Trainers. The clinical placement of students must be coordinated and approved by the Athletic Training Coordinator of Clinical Education. This course requires a minimum of 300 clinical education hours. Students cannot progress to the subsequent level in the Master of Science in Athletic Training Program until all course program retention requirements are met.

Prerequisite: Admission to the Athletic Training Program, ATTR 5210, ATTR 5220, and ATTR 5230.