A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305, ATR 3212 and PET 4609.

ATR 3212 Evaluation Techniques of Athletic Injuries I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 2010

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305, ATR 3212 and PET 4609.

ATR 3302 Therapeutic Modalities in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 2010

Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Permission is required.

ATR 3302L Therapeutic Modalities in Athletic Training Laboratory
College of Health, Department of Movement Sciences and Health
1 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: ATR 3302

Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries.

ATR 3512 Management Strategies in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484, ATR 3512 and PET 3660.

ATR 3812 Athletic Training Clinical I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 2000 AND BSC 1085/L

Students will refine many of the athletic training skills which were introduced during other courses. These include injury surveillance, implementation of OSHA standards, pre-participation exams, environment illness, environmental illness prevention, etiology and prevention guidelines associated with the leading causes of sudden death during physical activity, emergency preparedness, and communication and education of coaches, parents, and athletes. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.
ATR 3822  Athletic Training Clinical II  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3812  
Students will refine many of the athletic training skills which were introduced during other courses. These include using protective equipment and prophylactic procedures, emergency assessment procedures, and perform a comprehensive clinical evaluation on the spine and lower extremities. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4213L Evaluation Techniques of Athletic Injuries II  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3212 AND PET 4609  
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

ATR 4314 Rehabilitation of Athletic Injuries  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
Co-requisite: ATR 4314L  
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

ATR 4314L Rehabilitation of Athletic Injuries Laboratory  
College of Health, Department of Movement Sciences and Health  
1 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
Co-requisite: ATR 4314  
Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

ATR 4420 Pharmacology Application in Athletic Training  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3212  
Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides instruction in pharmacodynamics, pharmacokinetics used in the description of medical conditions associated with athletic injury diagnosis and classification.

ATR 4432 General Medical Conditions  
College of Health, Department of Movement Sciences and Health  
2 sh (may not be repeated for credit)  
Prerequisite: ATR 3212  
A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

ATR 4832 Athletic Training Clinical III  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3822  
Students will refine many of the athletic training skills which were introduced during other courses. These include diagnostic techniques, assess and interpret clinical findings based on cardiovascular function, pulmonary functions, gastrointestinal function, as well as other body areas. Students will also improve skills in educating patients including home care, expanding rehabilitation skills, and perform comprehensive evaluations on upper extremities, the head, neck and thorax. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4842 Athletic Training Clinical IV  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 4832  
Students will refine many of the athletic training skills which were introduced during other courses. These include evidence based practices, general nutrition concepts, disordered eating intervention, drug use intervention, use clinical reasoning skills, perform a comprehensive clinical exam on all body parts and systems, psychological interventions, and establish a health baseline for patients. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4902 Directed Study  
College of Health, Department of Movement Sciences and Health  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: ATR 3212 AND PET 4609  
The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both ATR 4933, ATR 4940 and ATR 4941.  

ATR 4933 Senior Seminar in Athletic Training  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3212 AND ATR 3302 AND ATR 4213 AND ATR 4314 AND PET 4609  
The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both ATR 4911, ATR 4933 and PET 4621.  

ATR 4940 Athletic Training Internship  
College of Health, Department of Movement Sciences and Health  
3-6 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ATR 3822  
Students will develop their knowledge, skills and attitudes by providing direct care of patients in an immersive setting and under the direct supervision of a certified athletic trainer; understand the medical and ethical aspects of practicing Athletic Training.
ATR 5105C  Advanced Principles in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Current principles and practice in the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions and the underlying theory and application of management of injuries associated with participation in physical activity. This course addresses the selection, fabrication, and application of tape, braces, and other orthopedic devices used in sports medicine.

ATR 5115C  Management of Medical Emergencies in AT
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Course includes instruction in the prevention, diagnosis, and intervention of acute and emergency medical conditions. Students will learn the basic principles of managing medical emergencies while utilizing immediate first aid techniques.

ATR 5120C  Anatomical Basis of Clinical Practice in Sports Medicine
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
By way of SynDavers and palpation labs, an in-depth, hands-on approach to learning the human skeletal and muscular anatomy will be offered. Students will learn anatomical and physiological studies through didactic and laboratory experiences; specifically how they relate to motion and mechanism of injury, muscle origins, insertions, and actions. Furthermore, students will develop and apply the principles and concepts of human movement, including normal osteokinematics and arthrokinematics.

ATR 5217C  Orthopedic Assessment I
College of Health, Department of Movement Sciences and Health
4 sh (may not be repeated for credit)
Prerequisite: ATR 5105C
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic examination procedures used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis.

ATR 5218C  Orthopedic Assessment II
College of Health, Department of Movement Sciences and Health
4 sh (may not be repeated for credit)
Prerequisite: ATR 5217C
A systematic examination of the fundamental principles and concepts of athletic training as it relates to the prevention, evaluation, diagnosis, treatment, and rehabilitation of upper extremity injuries and conditions.

ATR 5435  General Medical Conditions in the Athlete
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
This course focuses on the identification and treatment of medical conditions of the nervous, urinary, endocrine, reproductive, respiratory, gastrointestinal, cardiovascular, and integumentary systems. Specific diagnostic tests and examination procedures will also be addressed. Emphasis is placed on the role the athletic trainer plays in the prevention, evaluation, diagnosis, treatment, and rehabilitation of conditions as directed by a supervising physician.

ATR 5815C  Athletic Training Clinical Experience I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 5105C AND ATR 5125C
This course is the initial clinical experience for MS AT students. Student experiences involve developing a critical understanding and skill development related to injury surveillance, implementation of OSHA standards, and pre-participation exams. An emphasis will also be placed on etiology and prevention of environmental illnesses, sudden cardiac death during physical activity, emergency preparedness, and communication. Education of coaches, parents, and athletes related to these clinical issues will be an integral part of the course.

ATR 5825C  Athletic Training Clinical Experience II
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 5815C
This course will explore an evidence-based approach to therapeutic modality usage and implementation into a treatment plan. Students will investigate and analyze indications, contraindications, and biophysics of agents that aid in the healing of athletic injuries and the reduction of pain utilizing appropriate therapeutic modalities.

ATR 6305C  Therapeutic Modalities in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 5105C
This course is designed to provide a comprehensive overview of clinical techniques used in athletic training rehabilitative settings. Topics covered in this course include the determination of therapeutic goals and objectives, selection of therapeutic exercise progressions, methods of evaluating and recording rehabilitative progress, developing criteria for return to activity or competition, and determining the effects of trauma, wound, healing, and inactivity.

ATR 6316C  Rehabilitation Techniques in Athletic Training
College of Health, Department of Movement Sciences and Health
4 sh (may not be repeated for credit)
Prerequisite: ATR 6305C
This course is designed to introduce students to the principles of pharmacology and diagnostic imaging as it relates to athletic training. Students will become familiar with legal issues related to prescription and non-prescription medications, manage medication administration and inventory, critique therapeutic strategies in the athletic training setting, and conduct diagnostic imaging and orthopedic assessment.
ATR 6517  Administration and Professionalism in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
A course designed to provide the athletic training student with competencies needed to plan, coordinate, and supervise administrative components of an athletic training organization, including those pertaining to health care, financial, personnel and facilities management, and public relations. A comprehensive study of the concepts of legal liability, budgeting, inventory, facilities design, and general administration of the athletic training clinic will be covered.

ATR 6620  Research in Athletic Training I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Course will develop research skills for evidence-based practitioners in athletic training. Students will acquire proficiencies necessary to critically review and use evidence in the field of athletic training and will learn how to develop clinical questions, evaluate, and integrate relevant research literature; and integrate their own clinical experience with patient values into evidence-based clinical decision making.

ATR 6621  Research in Athletic Training II
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 6620
This course explores quantitative and qualitative research methodologies used in athletic training and evaluation of published research in the field. Students will learn to develop clinically based research questions related to athletic training, design effective research procedures to investigate those questions, and use various publication and presentation outlets to disseminate the findings to other athletic training scholars and practitioners. Capstone activity for this course involves designing a research project with a culminating research presentation. Basic format and organization issues in writing and publishing research manuscripts are covered along with how to identify a research topic, access resources, and write a literature review.

ATR 6835  Athletic Training Clinical Experience III
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 5825C
Students will identify and analyze injury surveillance protocols, general medical conditions, therapeutic modalities, joint mobilizations, and injury assessments and diagnoses.

ATR 6845  Athletic Training Clinical Experience IV
College of Health, Department of Movement Sciences and Health
6 sh (may not be repeated for credit)
Prerequisite: ATR 6835
Students will refine many of the athletic training skills which were introduced during other courses. These include critique and application of evidence-based clinical practice, nutrition principles, disordered eating management, emergent care procedures, clinical reasoning, injury evaluation and diagnosis. Additionally, students will generate referral protocols for mental health conditions, substance abuse, nutritional concerns, and common illnesses.