ATR: Athletic Training Courses

Courses

ATR 2000 Basic Care and Prevention Principles of Athletic Training
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required. Credit may not be earned in both PET 2603, ATR 2000 and PET 2604.

ATR 2010 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)

Fitness and health, prevention and care of injuries, and restoration and rehabilitation of the injured. Standard first aid, anatomy and physiology are required.

ATR 3132 Functional Kinesiology
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L

Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury, muscle origins, insertions, and actions will be learned through palpation.

ATR 4902 Directed Study
College of Health, Department of Movement Sciences and Health

1-12 sh (may be repeated indefinitely for credit)

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 professional practice in the prevention of acute and chronic medical conditions and the underlying theory and practice of reducing risk of injury/illness 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

2 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

3 sh (may not be repeated for credit)
Prerequisite: ATR 5105C

Orthopedic Assessment I is a specialized course dealing with anatomy, signs and symptoms, and specific orthopedic examination procedures used when assessing injuries and conditions of the lower extremity, pelvic region and lumbar spine, as well as lower extremity gait analysis.

ATR 5218C Orthopedic Assessment II
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)
Prerequisite: ATR 5217C

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic examination procedures used when assessing injuries and conditions of the upper extremity and cervical and thoracic spine, as well as posture assessment.

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)
Prerequisite: ATR 5218C

This is a specialized course dealing with anatomy, signs and symptoms, and specific examination procedures and diagnostic tests for the assessment of injuries and conditions of the cardiovascular, endocrine, respiratory, gastrointestinal, genitourinary, integumentary, neurological, and reproductive systems; the eyes, ears, nose, throat, mouth, and teeth; and behavioral health.

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 5115C

This course is the initial clinical experience for MSAT students. Students will focus on a variety of field experiences and the application of learned principles from athletic training clinical skills. Students will be directly supervised by a preceptor and given the opportunity to practice learned skills in the clinical setting.

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

Students will focus on a variety of field experiences and the application of learned principles from athletic training clinical skills. Students will be directly supervised by a preceptor and given the opportunity to practice learned skills in the clinical setting.

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 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 6316C Rehabilitation Techniques in Athletic Training
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)
Prerequisite: ATR 6305C

This course will explore the principles of a comprehensive rehabilitation program; specifically related to the design and implementation of a therapeutic program. Students will learn to incorporate exercises related to strength, proprioception and neuromuscular control to achieve the patient plan of care goals. Students will assess rehabilitation progress and criteria for return to activity.

ATR 6425 Pharmacology and Diagnostic Imaging in Athletic Training
College of Health, Department of Movement Sciences and Health

2 sh (may not be repeated for credit)
Prerequisite: ATR 5218C

This course is designed to introduce students to the principles of pharmacology and the role of the athletic trainer regarding the therapeutic use and effects of the drugs. Students will become familiar with legal issues related to prescription and non-prescription medications, and on the use and effects of drugs and of the disease states treated by these drug categories. The student to learn to read and understand diagnostic imaging, which will include describing the basic principles, the different ways of testing, and their role in the diagnostic process.

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)
Prerequisite: ATR 6517

This course focuses on the concepts of legal liability, budgeting, inventory, personnel and facilities management, and public relations and education. Students gain an understanding of administrative components and provision of services to athletes and other physically active individuals offered in healthcare facilities.

ATR 6620 Research in Athletic Training I
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)
Prerequisite: ATR 5217C AND ATR 6305C

This course will focus on the fundamentals of evidence-based practice (EBP) in athletic training. Students will develop knowledge to critically review research studies and make clinical decisions based on the selection and appraisal of the literature.

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. The capstone activity for this course involves designing a research project with a culminating research presentation.

ATR 6835 Athletic Training Clinical Experience III
College of Health, Department of Movement Sciences and Health

6 sh (may not be repeated for credit)
Prerequisite: ATR 5825C

Students will focus on an immersive clinical experience and the application of learned principles from athletic training clinical skills. Students will be directly supervised by a preceptor and given the opportunity to practice learned skills in the clinical setting.

ATR 6845 Athletic Training Clinical Experience IV
College of Health, Department of Movement Sciences and Health

3 sh (may not be repeated for credit)
Prerequisite: ATR 6835

Students will focus on a variety of field experiences and the application of learned principles from athletic training clinical skills. Students will be directly supervised by a preceptor and given the opportunity to practice learned skills in the clinical setting.