

# ATHLETIC TRAINING (AT)

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## AT 501 CLINICAL EDUCATION I1 Credit

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 502 CLINICAL EDUCATION II2 Credits

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 501

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 503 CLINICAL EDUCATION III2 Credits

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 502

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 504 CLINICAL EDUCATION IV2 Credits

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 503

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 523 FUNCTIONAL ANATOMY AND PHYSIOLOGY2 Credits

Athletic Training students will study the gross and functional anatomical and physiological principles of athletic injury with practical application to motor performance.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 524 FOUNDATION OF ATHLETIC TRAINING II2 Credits

To provide the Athletic Training student with the knowledge necessary to help sustain life, reduce pain, and minimize the consequences of sudden injury or illnesses.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 527 LOWER EXTREMITY EXAMINATION, TREATMENT AND REHABILITATION4 Credits

A systematic examination of the fundamental principles and concepts of athletic training as it relates to the prevention, evaluation, diagnosis, treatment and rehabilitation of lower extremity injuries.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 528 UPPER EXTREMITY EXAMINATION TREATMENT AND REHABILITATION4 Credits

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.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 529 ORGANIZATION, ADMINISTRATION AND LEADERSHIP IN HEALTH CARE AND ATHLETIC TRAINING3 Credits

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.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 536 HUMAN MOVEMENT, GAIT AND POSTURAL ASSESSMENT2 Credits

This course will provide students with various methods of assessing the biomechanical quality of human movement, gait, and posture for prevention, diagnosis, treatment and rehabilitation of injury.

## AT 539 ADVANCED EMERGENCY MEDICAL TECHNIQUES2 Credits

To provide the Athletic Training student with the knowledge and skills necessary to respond and act appropriately in emergency medical situations.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 540 THERAPEUTIC MODALITIES AND MANUAL THERAPIES4 Credits

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, basic therapeutic exercise and rehabilitative techniques.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 541 THERAPEUTIC EXERCISE2 Credits

Introduction to the principles of rehabilitation of sport injuries, including range of motion, pain control, balance, proprioception, strengthening, and endurance. The development of therapeutic goals and objectives. exercise gradation and methods of evaluating rehabilitation progress will be stressed.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 545 EVIDENCE BASED PRACTICE2 Credits

This course is designed to teach the concept and practice of evidence-based practice (EBP), empowering clinicians to competently and efficiently conduct evaluations of existing literature to improve patient outcomes in the clinical setting.

## AT 547 ADVANCED NUTRITION FOR SPORT AND WELLNESS3 Credits

The course examines nutritional needs across the life span, focusing on the basic nutrients and their food sources, and nutrient utilization in the human body. There will be a study of the association between nutrition and exercise performance, nutrition assessment of athletes, how to measure body composition, and the use of and controversy over ergogenic aids are explored.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

## AT 605 CLINICAL EDUCATION V2 Credits

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 504

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 606 CLINICAL IMMERSION IN ATHLETIC TRAINING3 Credits**

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 605

**Requirements:** Formal Acceptance for progression into the Master's Degree in Athletic Training

**AT 610 GENERAL MEDICAL CONDITIONS3 Credits**

Focuses in the identification and treatment of medical conditions of the nervous, urinary, endocrine, reproductive, respiratory, gastrointestinal, cardiovascular, integumentary system. Emphasis placed on the role the Athletic Trainer has in the prevention, evaluation, diagnosis, treatment and rehabilitation of associated conditions as directed by a supervising physician.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 611 PHARMACOLOGY3 Credits**

Introduces principles of drug therapy across the lifespan and the use of drugs as they pertain to the health care of athletes and their effect on athletic competition. An emphasis on the knowledge, skills and values required of the Athletic Trainer on pharmacological application, including indications, contraindications, precaution, interactions, documentation and governing regulations relevant to the treatment of injury and illness in athletic training.

**Requirements:** Formal acceptance for the progression into the Master's Degree in Athletic Training

**AT 615 RESEARCH PROCESS AND PRACTICE2 Credits**

Athletic Training Students develop the skills necessary to critically review and use evidence in the field of Athletic Training. This course will introduce research topics and the data collection and application of statistical methods used in Athletic Training and related research.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 629 HEAD NECK AND SPINE EXAMINATION TREATMENT AND REHABILITATION4 Credits**

A systematic examination of the fundamental principles and concepts of athletic training as it relates to the prevention, evaluation, diagnosis, treatment and rehabilitation of the head, neck and spine.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 630 SEM IN ATHLETIC TRAINING: EMERGING PRACTICES, INTERPROFESSIONAL COLLABORATION AND RURAL HEALTH CARE3 Credits**

This course is designed to instruct students regarding contemporary concepts evolving in the field of athletic training. Students will receive instruction regarding new and innovating emerging practices in medicine, learn how to collaborate inter-professional with other medical providers and to understand the nuances and challenges of providing health care in rural environments.

**AT 634 PRINCIPLES OF STRENGTH AND CONDITIONING3 Credits**

Instruction in basic physiological adaptations to strength and speed development, exercise prescription and testing, and facility design and safety.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 650 BOARD OF CERTIFICATION PREP1 Credit**

This course emphasizes transition to practice and preparing the student to practice autonomously. The course is designed to help students prepare for the BOC certification exam as well as their transition to autonomous practice as an athletic trainer. Topics discussed will integrate previous coursework but will be determined based on student needs assessment and trends in athletic training practice.

**AT 651 BOARD OF CERTIFICATION PREP I14 Credits**

This course emphasizes transition to practice and preparing the student to practice autonomously. The course is designed to help students prepare for the BOC certification exam as well as their transition to autonomous practice as an athletic trainer. Topics discussed will integrate previous coursework but will be determined based on student needs assessment and trends in athletic training practice.

**Prerequisites:** AT 650

**AT 660 CLINICAL IMMERSION IN ATHLETIC TRAINING I14 Credits**

Integration of educational competencies and clinical proficiencies with classroom instruction and supervised field-based experience.

**Prerequisites:** AT 606

**AT 690 INTERNSHIP3 Credits**

Provides a practical field-based experience incorporating educational competencies and clinical proficiencies gained throughout the athletic training program.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 691 ATHLETIC TRAINING CAPSTONE I3 Credits**

A capstone course designed for research discussion of critical questions and contemporary issues and problems in athletic training/sports medicine. Athletic Training Students will prepare for the Board Certification Exam.

**Requirements:** Formal acceptance for progression into the Master's Degree in Athletic Training

**AT 692 ATHLETIC TRAINING CAPSTONE II3 Credits**

A capstone course designed for research discussion of critical questions and contemporary issues and problems in athletic training/sport medicine. Athletic training Students will prepare for the Board of Certification Exam.

**Prerequisites:** AT 691

**Requirements:** Formal acceptance for the progression into the Master's Degree in Athletic Training