Athletic Training (AT)

AT 1298. Orientation to Athletic Training Education. Pre-Athletic Training majors will be introduced to the academic and clinical aspects of the CAATE accredited athletic training education program. The course is utilized as part of the rigorous student evaluation process before formal entrance into the athletic training education program.

2 Credit Hours. 1 Lecture Contact Hour. 1 Lab Contact Hour. Grade Mode: Standard Letter about Orientation to Athletic Training Education

AT 2156. Taping and Bandaging Athletic Injuries. This course focuses on the use of taping, bracing, and bandaging techniques in the prevention and care of athletic injuries.

1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours. Grade Mode: Standard Letter about Taping and Bandaging Athletic Injuries

AT 2260. Acute Care of Injuries and Illnesses. This course will address the knowledge and skills related to the immediate evaluation and specialized care of acute injuries and illnesses common in sports settings. Lectures and laboratory experiences are focused on key aspects of emergency sports health care, including the rapid assessment, resuscitation, packaging and transportation of injured patients. Must be admitted to the Pre-Athletic Training major to enroll.

2 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours. Grade Mode: Standard Letter about Acute Care of Injuries and Illnesses

AT 2356. Prevention and Care of Athletic Injuries. This course focuses on the theoretical and practical aspects of the prevention, treatment, and rehabilitation of athletic injuries.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours. Grade Mode: Standard Letter about Prevention and Care of Athletic Injuries

AT 2497. Clinical Experience in Athletic Training I. This course addresses emergency management and athletic injury prevention. These topics are integrated into a clinical education experience to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic education and clinical education at an assigned clinical site under the supervision of a clinical instructor. Must be admitted to an Athletic Training major to enroll.

4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours. Grade Mode: Standard Letter about Clinical Experience in Athletic Training I

AT 2498. Clinical Experience in Athletic Training II. This course addresses athletic injury evaluation and management. These topics are integrated into a clinical education experience to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic education and clinical education at an assigned clinical site under the supervision of a clinical instructor. Must be admitted to Athletic Training major to enroll.

4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours. Grade Mode: Standard Letter about Clinical Experience in Athletic Training II

AT 3126. Applied Laboratory of Upper Extremity Injuries. This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3326.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours. Co-requisite(s): AT 3326 Grade Mode: Standard Letter about Applied Laboratory of Upper Extremity Injuries

AT 3128. Applied Laboratory of Lower Extremity Injuries. This course will present a study and critical analysis of the anatomy, injury signs and symptoms, and special tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3328.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours. Co-requisite(s): AT 3328 Grade Mode: Standard Letter about Applied Laboratory of Lower Extremity Injuries

AT 3136. Applied Laboratory for Therapeutic Modalities. This course provides students with experiences in laboratory and field applications of therapeutic modalities of all athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3336.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours. Co-requisite(s): AT 3336 Grade Mode: Standard Letter about Applied Laboratory for Therapeutic Modalities

AT 3146. Applied Laboratory for Therapeutic Exercise and Rehabilitation. This course provides students with experiences in laboratory and field applications of therapeutic exercise and rehabilitation of athletic injuries. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Co-requisite: AT 3346.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours. Co-requisite(s): AT 3346 Grade Mode: Standard Letter about Applied Laboratory for Therapeutic Exercise and Rehabilitation
AT 3226. Medical Conditions and Disabilities.
This course focuses on evaluation and management strategies of primarily non-orthopaedic conditions commonly encountered in a physically active population and, to a lesser extent, special populations. Must be admitted to the Athletic Training Program or Pre-Physical Therapy Concentration to enroll. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430.
Grade Mode: Standard Letter
Course Attribute(s): about Medical Conditions and Disabilities

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of upper extremity injuries to the physically active individual. Co-requisite: AT 3126. Prerequisite: AT 2356, Minimum 2.75 TxState GPA.
Grade Mode: Standard Letter
Course Attribute(s): about Evaluation Techniques of Upper Extremity Injuries

The course will present a study and critical analysis of the anatomy, injury signs and symptoms, and specific tests used in the clinical evaluation of lower extremity injuries to the physically active individual. Co-requisite: AT 3128. Prerequisites: AT 2356; BIO 2430 or equivalent; Minimum 2.75 TxState GPA.
Grade Mode: Standard Letter
Course Attribute(s): about Evaluation Techniques of Lower Extremity Injuries

AT 3333. Therapeutic Interventions for Medical and Psychosocial Conditions.
This course will address the athletic training knowledge and skills required to evaluate and manage common medical conditions and psychosocial concerns found among the physically active. Lecture and laboratory experiences are focused on immediate and advanced care with emphasis on therapeutic interventions and referral. Prerequisites: BIO 1421, or BIO 1330 and BIO 1130; BIO 2430 or equivalent.
Grade Mode: Standard Letter
Course Attribute(s): Writing Intensive
about Therapeutic Interventions for Medical and Psychosocial Conditions

AT 3336. Principles and Techniques of Therapeutic Modalities.
A theoretical and evidence-based approach to the use of therapeutic modalities in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic modalities in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Co-requisite: AT 3136. Prerequisite: Minimum 2.75 Texas State GPA.
Grade Mode: Standard Letter
Course Attribute(s): about Principles and Techniques of Therapeutic Modalities

AT 3346. Therapeutic Exercise and Rehabilitation.
A theoretical and evidence-based approach to the use of therapeutic exercise in physical medicine settings. Special emphasis is placed on understanding the physiological effects, indications, contraindications and clinical applications of therapeutic exercise in the treatment and rehabilitation of musculoskeletal and neurological injuries and diseases. Corequisite: AT 3146. Prerequisites: AT 3326, AT 3328, PT 3400, Minimum 2.75 Texas State GPA.
Grade Mode: Standard Letter
Course Attribute(s): Lab Required
about Therapeutic Exercise and Rehabilitation

AT 3358. Clinical Pathopharmacology.
This course combines pathophysiology, the study of dynamic aspects of disease processes and study of drugs prescribed to prevent, diagnose, cure, or care for disease across the lifespan. Content includes etiology, pathogenesis, clinical presentation, implications for treatment, and pharmacological management. Prerequisite: BIO 2430 or equivalent; or PT 3400.
Grade Mode: Standard Letter
about Clinical Pathopharmacology

AT 3407. Clinical Experience in Athletic Training III.
This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to Athletic Training Majors. Prerequisite: AT 2497 with a grade of “C” or higher.
Grade Mode: Standard Letter
about Clinical Experience in Athletic Training III

AT 3498. Clinical Experience in Athletic Training IV.
This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to students in the Athletic Training Major. Prerequisite: AT 2498 with a grade of “C” or higher. (WI).
Grade Mode: Standard Letter
about Clinical Experience in Athletic Training IV

AT 3499. Clinical Experience in Athletic Training V.
This course integrates topics in advanced athletic injury evaluation and management into a clinical education experience designed to assess professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Restricted to students in the Athletic Training Major. Prerequisite: AT 2499 with a grade of “C” or higher. (WI).
Grade Mode: Standard Letter
about Clinical Experience in Athletic Training V
AT 4356. Organization and Management of Athletic Training Programs.
This course addresses the organizational and administrative aspects of athletic training program management. Topics will include, but are not limited to, medical, ethical, legal, personnel and financial management, medical record keeping, facilities, supply requisition and inventory, third-party reimbursement, drug testing and other current professional issues. Prerequisites: AT 3326. (WI).

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter
about Organization and Management of Athletic Training Programs

AT 4360. Internship in Clinical Settings.
Students will be introduced to the clinical aspects of allied health professions by being assigned to a minimum of two clinical sites. Prerequisite: Instructor consent. Prerequisite: Must be admitted to the Athletic Training major or to the Pre-Physical Therapy Emphasis.
Prerequisites: A minimum TXST GPA of 2.75, and AT 3326 and AT 3126; AT 3328 and AT 3128; and AT 3336 and AT 3136.

3 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter
about Internship in Clinical Settings

AT 4497. Clinical Experience in Athletic Training V.
This course integrates topics in therapeutic interventions and exercise into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3497 with a grade of "C" or better.

4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter
about Clinical Experience in Athletic Training V

AT 4498. Clinical Experience in Athletic Training VI.
This course integrates topics in nutrition, professionalism, and administration into a clinical education experience that assesses professional behaviors, cognitive knowledge, psychomotor skills, and proficiency-based case simulations. The course incorporates didactic and clinical education at an assigned clinical site under the supervision of a clinical instructor. Prerequisite: AT 3498 with a grade of "C" or better.

4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter
about Clinical Experience in Athletic Training VI

AT 5101. Graduate Assistant Development.
This course is required of all graduate assistants and provides regular inservice and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the spring semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis.

1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA
Grade Mode: Leveling/Assistantships
about Graduate Assistant Development

AT 5199B. Thesis.
This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis.

1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit
about Thesis

AT 5201. Graduate Assistant Development.
This course is required of all graduate assistants and provides inservice and planned periodic evaluations of instructional responsibilities. Graduate assistants are required to register for this course in the fall semester of their employment. This course does not earn graduate degree credit. Graded on a credit (CR), no-credit (F) basis.

2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA
Grade Mode: Leveling/Assistantships
about Graduate Assistant Development

AT 5299B. Thesis.
This course represents a student's continuing thesis enrollments. The student continues to enroll in this course until the thesis is submitted for binding. Graded on a credit (CR), progress (PR), no credit (F) basis.

2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit
about Thesis

AT 5302. Special Topics in Athletic Training.
This course is designed to educate students in the scientific process and develop an in-depth understanding of the research process in Athletic Training.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Special Topics in Athletic Training

AT 5303. Seminar in Athletic Training.
Current trends in athletic and physical education concerning the care and prevention of injuries with special emphasis on therapeutic and rehabilitation techniques. Taping and bandaging will be practiced in a laboratory situation.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Seminar in Athletic Training

AT 5307. Bioenergetics of Exercise and Rehabilitation.
This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercises in physiological basis of muscular, respiratory, cardiovascular, and nervous systems in the rehabilitation of all athletic injuries. Must be admitted to the MS in Athletic Training Program or instructor approval required.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
about Bioenergetics of Exercise and Rehabilitation
AT 5308. Therapeutic Exercise and Rehabilitation.
This course is designed to provide both a theoretical and clinical basis for the use of therapeutic exercise in the rehabilitation setting, as well as to impart knowledge pertaining to the physiological effects, indications, contraindications and applications of therapeutic exercise in the rehabilitation of all athletic injuries. Must be admitted to the M.S. in Athletic Training Program.

about Therapeutic Exercise and Rehabilitation
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5310. Proprioception and Neuromuscular Control in Rehabilitation.
This course provides for an advanced study of the concepts, theories, and current research related to proprioception, postural stability, and neuromuscular control as applied to the prevention, diagnosis, and clinical management of sport-related musculoskeletal injuries and concussions. Must be admitted to the M.S. in Athletic Training Program or instructor approval required.

about Proprioception and Neuromuscular Control in Rehabilitation
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5311. Biomechanics of Musculoskeletal Injury.
This course focuses on the application of biomechanical principles to the pathoetiology, diagnosis, and physiological capacity for healing of injuries to bone, ligament, tendon, cartilage, and other human tissues, with an emphasis on current injury research. Must be admitted to the M.S. in Athletic Training Program or instructor approval required.

about Biomechanics of Musculoskeletal Injury
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5312. Evidence-Based Practice in Sports Medicine.
This course is designed to provide students with advanced study in the elements of evidence-based practice in sports medicine with focus on the role of accessing, retrieving, and critically appraising evidence to answer clinical questions in patient care. Must be admitted to the M.S. in Athletic Training Program or instructor approval required. Prerequisite: ESS 5346.

about Evidence-Based Practice in Sports Medicine
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5318. Therapeutic Evaluation and Intervention.
This course explores the scientific bases of therapeutic musculoskeletal exercise and neuromuscular evaluative techniques in the rehabilitation process. Must be admitted to the M.S. in Athletic Training Program.

about Therapeutic Evaluation and Intervention
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5347. Independent Study in Athletic Training.
This course may be taken by a student who desires to work on a research problem or investigation in Athletic Training. The student gathers and analyzes pertinent data and submits a report of the results of the research. Repeatable once for credit. Prerequisite: ESS 5346.

about Independent Study in Athletic Training
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter