### 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

**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

**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

**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

**AT 2397. Clinical Experience in Athletic Training I.**
This course addresses the topics of injury prevention and emergency management, integrated into a clinical education experience designed to assess professional behaviors, knowledge and skills, and clinical proficiency. This course combines didactic with clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. A minimum 2.75 Texas State GPA is required. Must be admitted to the Athletic Training Cohort.

3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.  
Grade Mode: Standard Letter

**AT 2398. Clinical Experience in Athletic Training II.**
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. This course combines didactic and clinical education experiences obtained under the supervision of a licensed preceptor at an on-campus clinical site. Prerequisite: AT 2397 with a grade of "C" or better and a minimum 2.75 Texas State GPA. Must be admitted to the Athletic Training Cohort.

3 Credit Hours. 2 Lecture Contact Hours. 15 Lab Contact Hours.  
Grade Mode: Standard Letter

**AT 2400. Functional Anatomy.**
The students will learn to qualitatively analyze the movements of the human body while integrating musculoskeletal anatomy and neuromuscular physiology principles. Corequisite: BIO 2430.

4 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.  
Grade Mode: Standard Letter

**AT 3111. Clinical Assessment I Laboratory.**
This laboratory will assist students in developing the psychomotor skills used in the clinical evaluation of injuries and illnesses involving the head and face, brain, cervical spine, upper extremity, thorax, and pulmonary and cardiovascular systems. Corequisite: AT 3311. Prerequisites: AT 2356 with a grade of "D" or better, and a 2.75 Texas State GPA.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.  
Grade Mode: Standard Letter

**AT 3112. Clinical Assessment II Laboratory.**
This laboratory will assist students in developing the psychomotor skills used in the clinical evaluation of injuries and illnesses involving the lumbar spine and lower extremity injuries as well as abdomen, gastrointestinal, genitourinary, endocrine, dermatologic, and systemic illnesses. Corequisite: AT 3312. Prerequisite: AT 3111, AT 3311, and a 2.75 Texas State GPA.

1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.  
Grade Mode: Standard Letter

**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

**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

**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
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 with a grade of "D" or better. 
1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.
Grade Mode: Standard Letter

AT 3311. Clinical Assessment I.
This course instructs students in the knowledge and skills used in the clinical evaluation of injuries and illnesses involving the head and face, brain, cervical spine, upper extremity, thorax, and pulmonary and cardiovascular systems. Prerequisite: AT 2356 with a grade of "C" or better, and a 2.75 Texas State GPA. Corequisite: AT 3111.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

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, with a grade of "D" or better, Minimum 2.75 TxState GPA.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Co-requisite(s): AT 3126
Grade Mode: Standard Letter

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 TxEstate GPA.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Co-requisite(s): AT 3128
Grade Mode: Standard Letter

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, all with a grade of D or better. (Wi).
3 Credit Hours. 2 Lecture Contact Hours. 2 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter

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.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Co-requisite(s): AT 3136
Course Attribute(s): Lab Required
Grade Mode: Standard Letter

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.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Lab Required
Grade Mode: Standard Letter

This course provides a study of the structure and function of the human body with particular emphasis on the muscular, skeletal, vascular and nervous systems. Attention will be on the anatomy and physiology of the body systems focusing on understanding specific functions of body tissues. Laboratory study of the human cadaver is included. Prerequisite: AT 2400 with a grade of "D" or better. 
4 Credit Hours. 2 Lecture Contact Hours. 4 Lab Contact Hours.
Grade Mode: Standard Letter

AT 3497. 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. Prerequisite: AT 2397 with a grade of "C" or better.
4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter
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.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter

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

AT 5191. Capstone I.
This course is a supervised project to analyze outcomes in a defined area of clinical practice. The course includes patient outcomes data collection in a practice-based research environment. Completion of full research sequence is required for graduation.
1 Credit Hour. 1 Lecture Contact Hour. 2 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5192. Capstone II.
This course is a supervised project to analyze outcomes in a defined area of clinical practice. The course includes completion of data collection and analysis for an oral presentation and final paper and poster. Completion of this last course is required. Prerequisite: AT 5191.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Standard Letter

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

AT 5201. Graduate Assistant Development.
This course is required of all graduate assistants and provides in-service 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.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Leveling/Assistantships

AT 5201. Graduate Assistant Development.
This course is required of all graduate assistants and provides in-service 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.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Leveling/Assistantships
AT 5230. Clinical Experience I.
This course will integrate topics in athletic injury evaluation, management and intervention into an immersive 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. Prerequisite: AT 5320.
2 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5231. Clinical Experience II.
This course will integrate topics in athletic injury evaluation, management and intervention into an immersive 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. Prerequisite: AT 5230.
2 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5232. Clinical Experience III.
This course will integrate topics in athletic injury evaluation, management and intervention into an immersive 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. Prerequisite: AT 5230; AT 5231.
2 Credit Hours. 0 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5232B. 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.
2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

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.
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.
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 pathoetioloogy, 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.
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 with a grade of "C" or better.
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.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5320. General Medical Conditions Assessment and Care.
This course will enable the student to recognize, evaluate, differentiate and manage common systemic and traumatic conditions and diseases.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5321. Internship in Athletic Training.
This 400-hour internship provides students with professionally related experience. Students may work with diverse clinical populations in varying athletic training settings. Internship is approved and supervised by Program Coordinator or assigned faculty. Prerequisite: Departmental approval.
3 Credit Hours. 0 Lecture Contact Hours. 40 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5334. Clinical Experience IV.
This course will integrate topics in athletic injury evaluation, management and intervention into an immersive 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. Prerequisite: AT 5320; AT 5231; AT 5232; AT 5333.
3 Credit Hours. 0 Lecture Contact Hours. 30 Lab Contact Hours.
Grade Mode: Standard Letter
AT 5335. Clinical Experience V.  
This course will integrate topics in athletic injury evaluation, management and intervention into an immersive clinical education experience designed to assess professional behaviors, 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 5230; AT 5231; AT 5232; AT 5333; AT 5334.  
3 Credit Hours. 0 Lecture Contact Hours. 30 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5340. Research Methods and Evidence Based Practice in Athletic Training.  
This course is designed to provide the student with an understanding of the statistical terminology when reading and appraising research studies in order to use evidence to inform clinical practice.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5341. Pathopharmacology.  
This course will examine the physiological responses and progression of injuries, illnesses, and diseases to the physically active individual. Additionally, this course will provide instruction in the principles and issues of the physiological and psychological response to the pharmacological use and/or abuse of substances. Prerequisite: AT 5320.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5342. Administration and Leadership in Athletic Training.  
This course will evaluate administrative aspects of an athletic training program management such as: risk management, medical record keeping, facilities, third-party reimbursement, health informatics and other current professional issues.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5343. Interdisciplinary Approach to Athletic Training.  
This course will examine the practice and educational implications of effective and efficient interprofessional teamwork and collaboration in patient care.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Standard Letter

This course provides students various settings to explore aspects of patient evaluation, intervention and outcomes in a simulated learning environment. Students will identify issues in patient care including physical and psychosocial characteristics. Students will apply clinical decision-making skills learned in all courses leading up this final semester class.  
3 Credit Hours. 0 Lecture Contact Hours. 3 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 with a grade of "C" or better.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5399A. Thesis.  
This course represents a student’s initial thesis enrollment. No thesis credit is awarded until student has completed the thesis in AT 5399B. Graded on a credit (CR), progress (PR), no credit (F) basis.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Credit/No Credit

AT 5399B. Thesis.  
This course represents a student’s continuing thesis enrollment. The student continues to enroll in this course until the thesis is submitted for binding.  
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.  
Grade Mode: Credit/No Credit

This course will examine the structure and function of the human body with emphasis on the skeletal and muscular systems. The course focuses on anatomy and physiology of systems of special interest to students preparing to become athletic trainers. Laboratory study of the human cadaver is included.  
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5401. Musculoskeletal Assessment of Upper and Lower Extremities.  
This course will examine the injury and illness signs and symptoms as well as specific tests and skills used in the clinical evaluation and assessment involving the upper and lower extremities. Prerequisite: AT 5400.  
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5402. Musculoskeletal Assessment of Head/Face/Spine and Neurological Systems.  
This course will enable the student to critically analyze the specific tests and skills used in the clinical evaluation and assessment involving the head, spine and neurological systems. Prerequisite: AT 5400; AT 5401.  
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.  
Grade Mode: Standard Letter

AT 5413. Therapeutic Interventions I.  
This course is designed to provide both a theoretical and clinical basis for the standardized systems approach to therapeutic modality applications to treat patients with musculoskeletal conditions and injury. Prerequisite: AT 5400.  
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.  
Grade Mode: Standard Letter
AT 5414. Therapeutic Interventions II.
This course is designed to examine both a theoretical and clinical basis for the standardized systems approach to therapeutic exercise applications to treat patients with musculoskeletal conditions and injury. Prerequisite: AT 5400; AT 5413.
4 Credit Hours. 3 Lecture Contact Hours. 4 Lab Contact Hours.
Grade Mode: Standard Letter

AT 5599B. 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.
5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

AT 5999B. 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.
9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit