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 2357. 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 3326.
1 Credit Hour. 0 Lecture Contact Hours. 2 Lab Contact Hours.
Grade Mode: Standard Letter

AT 2358. 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 3328.
1 Credit Hour. 0 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 3311, 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 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 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 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.

2 Credit Hours. 2 Lecture Contact Hours. 0 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. Corequisite: AT 3111. Prerequisite: AT 2356 with a grade of "D" or better, and a 2.75 Texas State GPA.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

AT 3312. Clinical Assessment II.
This course instructs students about the preliminary and secondary survey with emphasis on clinical assessment of lumbar spine and lower extremity injuries as well as abdomen, gastrointestinal, genitourinary, endocrine, dermatological, and systemic illnesses. Corequisite: AT 3112. Prerequisites: AT 3111 and AT 3311, all with a grade of "D" or better, and a 2.75 Texas State GPA.

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 TxState 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 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.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
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.
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. Restricted to Athletic Training Majors. Prerequisite: AT 2497 with a grade of "C" or better.

4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
Grade Mode: Standard Letter
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 better. (WI).
4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter

AT 4113. Clinical Therapeutic Interventions Lab.
This course provides students with experiences in laboratory and field applications of therapeutic interventions in physical medicine, both modalities and exercise, for patients with musculoskeletal and neurological injuries. Corequisite: AT 4313. Prerequisites: AT 3112 or AT 3312, 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 4313. Clinical Therapeutic Interventions.
This course provides a theoretical and clinical background in the use of therapeutic interventions in physical medicine, both modalities and exercise, for patients with musculoskeletal and neurological injuries. Corequisite: AT 4113 Prerequisites: AT 3112 or AT 3312 with a grade of "D" or better, and a 2.75 Texas State GPA.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

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 with a grade of "D" or better, and a 2.75 Texas State GPA.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Writing Intensive
Grade Mode: Standard Letter

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 all with a grade of "D" or better.
3 Credit Hours. 0 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 3498 with a grade of "C" or better.
4 Credit Hours. 2 Lecture Contact Hours. 20 Lab Contact Hours.
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 5101. Graduate Assistant Development.
This course is required of all graduate assistants and provides regular in-service 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.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA
Grade Mode: Leveling/Assistantships

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

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

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
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

AT 5307. Bioenergetics of Exercise and Rehabilitation.
This course is designed to provide both a theoretical and clinical basis
for the use of therapeutic exercise 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

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
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.
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 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

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