MASTER OF SCIENCE (M.S.), MAJOR IN ATHLETIC TRAINING (NON-THESIS OPTION)

Degree Program
The Master of Science (M.S.) degree with a major in Athletic Training is designed as an advanced post-professional athletic training curriculum for the board-certified athletic trainer. The graduate student in athletic training may choose from either the thesis or the non-thesis option.

As background prerequisites, an athletic training major is expected to have graduated from an academic institution that is accredited by the Commission on Accreditation of Athletic Training Education (CAATE) or presently be certified through the Board of Certification, Inc.

Application Requirements
The items listed below are required for admission consideration for applicable semesters of entry during the current academic year. Submission instructions, additional details, and changes to admission requirements for semesters other than the current academic year can be found on The Graduate College’s website (http://www.gradcollege.txstate.edu). International students should review the International Admission Documents webpage (http://mycatalog.txstate.edu/graduate/admission-documents/international) for additional requirements.

• completed online ApplyTexas application
• $40 nonrefundable application fee
• $50 nonrefundable international evaluation fee (if applicable)
• baccalaureate degree from a university with regional and CAATE (Commission on Accreditation of Athletic Training Education) accreditations
• official transcripts required from each four-year institution where course credit was granted
• minimum 3.0 GPA in your last 60 hours of undergraduate course work (plus any completed graduate courses)
• GRE scores not required
• athletic trainer certification or eligibility for the certification exam (especially if the student’s degree is not from a CAATE-accredited institution)
• research interest form
• resume/CV including education, certifications or licensures, professional affiliations, clinical education experiences and/or professional work experience, honors and awards, community service activities, and professional presentations/publications
• statement of purpose (maximum two pages) that discusses the student’s reasons for pursuing graduate studies in athletic training at Texas State University, goals for graduate study, and areas of research interest. The student should also include how the knowledge gained from this degree program will contribute to his/her future career and professional growth.
• three forms of recommendation with at least one form from an academic faculty member and one form from the certified athletic trainer who supervised the majority of the student’s clinical experience

TOEFL or IELTS Scores
Non-native English speakers who do not qualify for an English proficiency waiver:

• official TOEFL iBT scores required with a 78 overall
• official IELTS (academic) scores required with a 6.5 overall and
• minimum individual module scores of 6.0

This program does not offer admission if the scores above are not met.

Degree Requirements
The Master of Science (M.S.) degree with a major in Athletic Training requires 37 semester credit hours.

Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AT 5308</td>
<td>Therapeutic Exercise &amp; Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>AT 5310</td>
<td>Proprioception and Neuromuscular Control in Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>AT 5311</td>
<td>Biomechanics of Musculoskeletal Injury</td>
<td>3</td>
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<tr>
<td>AT 5312</td>
<td>Evidence-Based Practice in Sports Medicine</td>
<td>3</td>
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<tr>
<td>AT 5318</td>
<td>Therapeutic Evaluation and Intervention</td>
<td>3</td>
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<tr>
<td>AT 5347</td>
<td>Independent Study in Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>ESS 5346</td>
<td>Research Methods in Health and Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>ESS 5356</td>
<td>Applied Statistics in Health and Human Performance</td>
<td>3</td>
</tr>
<tr>
<td>PT 5400</td>
<td>Human Structure and Function</td>
<td>4</td>
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Prescribed Elective
Choose 3 hours from the following:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>AT 5307</td>
<td>Bioenergetics of Exercise &amp; Rehabilitation</td>
<td>3</td>
</tr>
<tr>
<td>ESS 5306</td>
<td>Advanced Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>ESS 5307</td>
<td>Advanced Resistance Training and Conditioning</td>
<td></td>
</tr>
<tr>
<td>ESS 5311</td>
<td>Applied Neuromuscular and Skeletal Muscle Physiology</td>
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</tbody>
</table>

Electives
Choose 6 hours from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ESS 5304</td>
<td>Motor Learning and Performance</td>
<td></td>
</tr>
<tr>
<td>ESS 5305</td>
<td>Advanced Fitness Assessment and Exercise Prescription</td>
<td></td>
</tr>
<tr>
<td>ESS 5309</td>
<td>Biomechanics for Exercise &amp; Sports Science</td>
<td></td>
</tr>
<tr>
<td>ESS 5310</td>
<td>Cardiopulmonary Exercise Physiology</td>
<td></td>
</tr>
<tr>
<td>ESS 5329</td>
<td>Motor Learning</td>
<td></td>
</tr>
<tr>
<td>NUTR 5364</td>
<td>The Science of Nutrition and Exercise</td>
<td></td>
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</tbody>
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Total Hours 37

Comprehensive Examination Requirements
All candidates for graduate degrees must pass one or more comprehensive examinations.
Master’s level courses in Health and Human Performance: AT

**Courses Offered**

**Athletic Training (AT)**

**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 Hours. 0 Lab Contact Hours.

**Course Attribute(s):** Graduate Assistantship|Exclude from Graduate GPA

**Grade Mode:** Leveling/Assistantships

**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 continuation of the research sequence that culminates in 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.

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 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 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 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 5333. 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 5230; 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, 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; 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 5415. 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 5416. Therapeutic Interventions III.
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 5417. Therapeutic Interventions IV.
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