

Health and Rehabilitation Sciences

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The **Department of Health & Rehabilitation Sciences (HERS)** offers the following graduate degree:

- **Master of Science in Athletic Training (MSAT)** is an entry-level professional degree program designed specifically for students who have not obtained the national Board of Certification in athletic training. This degree is for students who have completed a bachelor degree in Kinesiology or a related field, and now wish to pursue a degree in athletic training. The major objectives of the MSAT are to prepare students to make impactful contributions in the global healthcare community, develop decision-making skills through critical analysis, and prepare students for successful completion of the national Board of Certification exam.

Information for the Master of Science in Athletic Training (MSAT)

Students must be accepted into the MSAT and the graduate school prior to beginning coursework. All students start coursework during the summer session. The program follows a healthcare cohort model, and the designated course sequence must be followed. The degree requires a combination of coursework and clinical rotations. Students must make a "C" or better in all coursework. Refer to the MSAT website for more information.

Master of Science in Athletic Training

Required Courses

ATRN 5351	Athletic Training Techniques	3
ATRN 5452	Therapeutic Interventions	4
ATRN 5453	Orthopedic Assessment I	4
ATRN 5454	Orthopedic Assessment II	4
ATRN 5455	Therapeutic Exercise	4
ATRN 5356	Evidence Based Practice & Research	3
ATRN 5458	General Medical Assessment	4
ATRN 5363	Orthopedic Assessment III	3
ATRN 5359	Trends in Athletic Training	3
ATRN 5360	Healthcare Administration	3
ATRN 5361	Empowering Success	3
ATRN 5362	Cultural Experiences in Global Healthcare	3
KINE 5383	Fitness and Wellness Applications in Athletic Training	3
ATRN 5191	Clinical I	1
ATRN 5192	Clinical II	1
ATRN 5194	Clinical IV	1
ATRN 5293	Clinical III	2
ATRN 5353	Emergency Assessment and Care	3
ATRN 5358	Pharmacology in Athletic Training	3
Total Hours		55

Courses

ATRN 5191. Clinical I. 1 Credit Hour (Lecture: 0 Hours, Lab: 9 Hours).

Clinical I is designed to allow integration and evaluation of athletic training competencies and proficiencies in a clinical environment under the supervision of an approved preceptor. Clinical settings for hands on, supervised experience might include (but is not limited to) university, high school, clinic/outreach, hospital, industrial, or military. Prerequisite: ATRN 5351.

ATRN 5192. Clinical II. 1 Credit Hour (Lecture: 0 Hours, Lab: 9 Hours).

Clinical II is designed to allow integration and evaluation of athletic training competencies and proficiencies in a clinical environment under the supervision of an approved preceptor. Clinical settings for hands on, supervised experience might include (but is not limited to) university, high school, clinic/outreach, hospital, industrial, or military. Prerequisite: ATRN 5191.

ATRN 5194. Clinical IV. 1 Credit Hour (Lecture: 0 Hours, Lab: 9 Hours).

Clinical IV is designed to allow integration and evaluation of athletic training competencies and proficiencies in a clinical environment under the supervision of an approved preceptor. Clinical settings for hands on, supervised experience might include (but is not limited to) university, high school, clinic/outreach, hospital, industrial, or military. Prerequisite: ATRN 5293.

ATRN 5293. Clinical III. 2 Credit Hours (Lecture: 0 Hours, Lab: 18 Hours).

Clinical III is designed to allow integration and evaluation of athletic training competencies and proficiencies in a clinical environment under the supervision of an approved preceptor. Clinical settings for hands on, supervised experience might include (but is not limited to) university, high school, clinic/outreach, hospital, industrial, or military. This course provides students the opportunity to experience fall two-a-day workouts with an assigned setting. Prerequisite: ATRN 5192.

ATRN 5351. Athletic Training Techniques. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

An overview and practice of basic athletic training techniques used for the prevention and care of injuries to the physically active patient. Prerequisite: Acceptance into the MSAT degree program.

ATRN 5353. Emergency Assessment and Care. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

This course will teach the athletic training knowledge and skills required to evaluate and manage traumatic injuries and illnesses found among the physically active. It is a comprehensive course for the athletic trainer who must initially evaluate and stabilize the patient in an emergent situation. The course teaches rapid assessment, intervention, resuscitation, packaging, and transportation of injured and ill patients. Prerequisite: Acceptance into the MSAT degree program.

ATRN 5356. Evidence Based Practice & Research. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course addresses the role of research in the athletic training profession including conducting research, research sources utilization and dissemination, and principles of evidence based practice. This class will help you learn to take challenging clinical issues and apply a step by step process of evidence based practice in order to find solutions. Prerequisite: Acceptance into the MSAT degree program.

ATRN 5357. Leadership in Athletic Training. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course is designed to instruct and develop leadership skills in athletic training. Prerequisites: ATRN 5454, ATRN 5455, ATRN 5192.

ATRN 5358. Pharmacology in Athletic Training. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

This course will provide the instruction on principles and issues of the physiological and psychological response to pharmacological use along with possible abuse of substances with an emphasis placed on the basic principles of pharmacology and pharmacokinetics. This course is intended to provide the student with the expanded theoretical background required for the use and regulation of medications and their therapeutic usage with an active population. Prerequisite: Acceptance into the MSAT degree program.

ATRN 5359. Trends in Athletic Training. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Students will learn about and discuss current trends and issues within the athletic training profession. Prerequisite: Acceptance into the MSAT degree program.

ATRN 5360. Healthcare Administration. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

Overview of administrative principles related to the operation of an athletic training program and healthcare facility. Prerequisite: Co or pre-requisite of ATRN 5356.

ATRN 5361. Empowering Success. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course is an integrative learning experience drawing on all previous coursework in order to complete a project that is impactful in the healthcare community. Additionally, students are required to register and prepare for their BOC certification exam as part of this course. Prerequisite: Acceptance into the MSAT program.

ATRN 5362. Cultural Experiences in Global Healthcare. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).

This course is designed to allow a cultural healthcare experience abroad. Students may be exposed to non-traditional medical techniques as well as assist in teaching prevention and care techniques to active individuals while participating in educational activities while abroad. Locations and experiences will vary by year. Prerequisite: Acceptance into the MSAT program.

ATRN 5363. Orthopedic Assessment III. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

The study and integration of orthopedic assessment techniques to distinguish axial skeletal injuries common to the physically active patient. Posture and gait analysis are also applied to the assessment process. Prerequisite: Acceptance into the MSAT program.

ATRN 5383. Fitness and Wellness Applications in Athletic Training. 3 Credit Hours (Lecture: 3 Hours, Lab: 3 Hours).

This course is designed to teach students how to instruct clients/patients in the basic principles of ergodynamics and their relationship to the prevention of illness and injury.

ATRN 5452. Therapeutic Interventions. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

Investigation of the scientific principles and the application of therapeutic modalities and pharmacological agents in athletic training. Includes therapeutic purposes, indications, contraindications, and adverse effects. Prerequisite: Acceptance into the MSAT program.

ATRN 5453. Orthopedic Assessment I. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

The study and integration of orthopedic assessment techniques to distinguish lower extremity injuries common to the physically active patient. Posture and gait analysis are also applied to the assessment process. Prerequisite: Acceptance into the MSAT program.

ATRN 5454. Orthopedic Assessment II. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

The study and integration of orthopedic assessment techniques to distinguish upper extremity injuries common to the physically active patient Prerequisite: Acceptance into the MSAT program.

ATRN 5455. Therapeutic Exercise. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

The theory and application of therapeutic exercise tools and techniques in the rehabilitation of injuries to the physically active patient. Prerequisite: Acceptance into the MSAT program.

ATRN 5458. General Medical Assessment. 4 Credit Hours (Lecture: 4 Hours, Lab: 4 Hours).

This course provides an understanding of injury, illness and/or disease of various body systems (including cardiovascular, gastrointestinal, dermatological, neurological, etc). The course includes discussion of diagnostics and interventions, as well as participation considerations for physically active patients. Prerequisite: Acceptance into the MSAT program.