ATR 210. Introduction to Athletic Training (3) Pre-requisites: Permission of instructor and BIO 201, Co-requisites: PSY 105. Introduction to the profession of athletic training. Topics will cover: injury/illness prevention and wellness protection, clinical evaluation and diagnosis, immediate and emergency care, treatment and rehabilitation, organizational and professional health and well-being. Lecture and laboratory skill practice included.

ATR 211. Care and Prevention of Athletic Injuries (3) Pre-requisite: Athletic training majors only. This course will focus on acquiring knowledge and applying foundational concepts of athletic training in the areas of anatomy and kinesiology, general pathology of injury, injury prevention strategies and risk management techniques. Completion of minimum 150 or a maximum 250 clinical hours under the direct supervision of an approved clinical instructor/certified licensed athletic trainer. Two lecture hours and one laboratory hour each week.

BIO 240. Human Anatomy and Physiology I (3) Prerequisite: BIO 201 and CHM 101. Lecture must be taken concurrent with BIOL 240. An introduction to the human organism with particular emphasis on maintenance of an internal steady state. Tissues, musculoskeletal, nervous, and endocrine systems are stressed. Three lecture hours each week.

BIO 241. Human Anatomy and Physiology II (3) Prerequisite: BIO 240. Lecture must be taken concurrent with BIOL 241. A comprehensive study of human organ systems as relates to the maintenance of homeostasis. Topics include cardiovascular, respiratory, digestive, urinary, and reproductive systems. Three lecture hours each week.

ATR 300: Seminar with Allied Health Care Professionals (1) Prerequisite; Athletic training majors only or by consent of instructor. This class is designed to expose athletic training students to various allied health care professionals from different settings.

ATR 302. Therapeutic Modalities in Athletic Training (3) Prerequisites: Athletic training majors only, ATR 304 and ATR 306; co-requisites ATR 305 and ATR 307. Theoretical fundamentals of therapeutic interventions with regard to the evidenced-based practice of therapeutic modalities. Lecture and laboratory skill practice included.
ATR 303. Therapeutic Rehabilitation in Athletic Training (3) Pre-requisites: Athletic training majors only ATR 302, ATR 305, and ATR 307; and co-requisite: ATR 448. Theoretical fundamentals of therapeutic interventions with regard to the evidence-based practice of physical rehabilitation and psychosocial strategies relating to the injury process. Lecture and laboratory skill practice included.

ATR 304. Evaluation of Athletic Injuries I (3) Pre-requisites: Athletic training majors only, ATR 211 and BIO 240; co-requisites: ATR 306 and BIO 241. Theoretical fundamentals of clinical evaluation and diagnosis with regard to evidence-based practice of orthopedic injuries to the spine and lower extremity. Lecture and laboratory skill practice included.

ATR 305. Evaluation of Athletic Injuries II (3) Pre-requisites: Athletic Training majors only, ATR 304, and ATR 306; and co-requisites: ATR 302 and ATR 307. Theoretical fundamentals of clinical evaluation and diagnosis with regard to evidence-based practice of orthopedic injuries to the spine and upper extremity. Lecture and laboratory skill practice included.

ATR 306. Clinical I in Athletic Training (3). Pre-requisites: Athletic Training majors only, ATR 211 and BIO 240; co-requisites: ATR 304 and BIO 241. This course will assess students on the clinical applications of acute care management of injuries and illnesses including planning, examination and immediate care of emergent conditions. Minimum requirement of 150 to maximum of 250 clinical experience hours. Lecture and laboratory skill practice included.

ATR 307. Clinical II in Athletic Training (3) Pre-requisites: Athletic Training majors only, ATR 304 and ATR 306; and co-requisites: ATR 302 and ATR 305. This course will assess students on the clinical applications of clinical evaluation and diagnosis of the spine and lower extremity with regard to current evidence-based practice. Minimum requirement of 150 to maximum of 250 clinical experience hours. Lecture and laboratory skill practice included.

EXS 340: Biomechanics (3) Prerequisite; PED 216. Neuromuscular and mechanical principles of human movement, with emphasis on movement analysis most often encountered in fitness activities and sport skills.

EXS 349: Physiology of Exercise and Sport (4) Prerequisite; PED 216 or BIO 345. Fundamental responses of the human body to the stress of exercise, including compensatory adjustments to long-term physical training. Three lecture and two lab hours each week.
**ATR 445.** Organization and Administration in Athletic Training (3) Pre-requisites: Athletic training majors only, ATR 303 and ATR 448; and co-requisites ATR 449 and ATR 450. Topics will focus on understanding the dynamics of a complex healthcare system with regards to the delivery and management of individualized patient care.

**ATR 448.** Clinical III in Athletic Training (3) Pre-requisites: Athletic training majors only, ATR 302, ATR 305, and ATR 307; and co-requisite: ATR 303. This course will assess students on the clinical applications of clinical evaluation and diagnosis of the spine and upper extremity with regard to current evidence-based practice. Minimum requirement of 150 to maximum of 250 clinical experience hours. Lecture and laboratory skill practice included.

**ATR 449.** Clinical IV in Athletic Training (3) Pre-requisites: Athletic training majors only, ATR 303 and ATR 448; and co-requisites ATR 445 and ATR 450. This course will assess students on the clinical applications of therapeutic interventions focusing on comprehensive treatment planning and psychosocial strategies with regard to current evidence-based practice. Minimum requirement of 150 to maximum of 250 clinical experience hours. Lecture and laboratory skill practice included.

**ATR 450.** Pharmacology Concepts in Sports Medicine (3) Pre-requisites: Athletic training majors only or by consent of instructor, ATR 303 and ATR 448; and co-requisites ATR 445 and ATR 449. This course is designed as an introduction to pharmacology for Athletic Trainers. Topics include pharmacokinetic and pharmacodynamics principles, drug regulation and therapeutic use in the context of physically active populations. Lecture and laboratory skill practice included.

**HEA 465.** Prerequisite; PED 216, PED 217 and junior status. Relationship of exercise, physical activity and performance to human nutrition. In depth information on human energy systems, weight control and proper dieting. Intermediate and cellular metabolism in relation to nutrition and overall health.

**ATR 490.** Clinical V in Athletic Training (3) Pre-requisites: Athletic training majors only, ATR 445, ATR 449, and ATR 450. This capstone course will assess students on clinical integration proficiencies encompassing the professional domains of athletic training. Preparation for employment and professional development will be a focus. Minimum requirement of 150 to maximum of 250 clinical experience hours. Lecture and laboratory skill practice included.