**ATR - ATHLETIC TRAINING**

**ATR 5110 Pathophysiology of Sports Injuries Cr. 3**
Explores musculoskeletal sports injury from a pathophysiologic and pathomechanical perspective. The effects of acute trauma and repetitive stress on the musculoskeletal system are examined. Additionally, the pathophysiology of sports related concussion is explored. Cumulative emphasis is placed on the evaluation process contributing to the foundational level of differential diagnosis. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Athletic Training.

**ATR 5115 Acute Care of Athletic Injuries Cr. 3**
Students will develop an understanding of fundamental clinical practice concepts utilized by athletic trainers in the prevention, recognition, treatment and disposition of acute athletics-related illnesses and injuries. Emphasis is placed on the implementation of the emergency action plan and on-field/on-site assessment. Students will cultivate practical skills necessary for emergency care while developing the foundational level of differential diagnosis for acute injury/and illness. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Athletic Training.

**ATR 5125 Orthopedic Assessment Cr. 3**
Addresses assessment of musculoskeletal and orthopedic related impairments and injury. Focuses on the evaluation process and diagnostic procedures associated with clinical reasoning and the development of differential diagnosis for clinical application. Offered Fall.

**Prerequisite:** ATR 5110 with a minimum grade of C and ATR 5115 with a minimum grade of C

**ATR 5130 Therapeutic Interventions I Cr. 3**
A lecture and lab experience, focused on the principles and procedures for the selection and application of physical agents and mechanical techniques, essential for the management of musculoskeletal injury and/or dysfunction. Evidence-based practice (EBP) will be integrated throughout the course to enhance the development of treatment plans and clinical application. Offered Fall.

**ATR 5135 Evidence-Based Practice in Athletic Training Cr. 3**
Introduces the concepts of evidence-based medicine and provides the student with information on how evidence-based medicine can affect the clinical practice of athletic training and enhance the care given to patients. Offered Fall.

**Restriction(s):** Enrollment is limited to students with a major in Athletic Training.

**ATR 5140 Clinical Gross Anatomy Cr. 3**
Comprehensive review of human anatomy as it pertains to athletic training clinical practice. Students will develop an understanding of human anatomy and its relationship to etiology, evaluation, diagnosis, treatment, and rehabilitation of various medical conditions. Course content will emphasize, but is not limited to, the muscular, skeletal, nervous, and vascular systems. Prosected human cadavers, plastinated specimens, anatomical models, and computerized software/imaging will be used as instructional methods. Offered Winter.

**ATR 5145 Therapeutic Interventions II Cr. 3**
Provides conceptual and practical application of therapeutic interventions addressing musculoskeletal and orthopedic related conditions. Students will determine therapeutic intervention care plans consistent with patient-centered functional outcomes. Specific emphasis will be placed on therapeutic and corrective exercise. Offered Winter.

**ATR 5149 Pre-Season Integrative Experience I Cr. 1**
Provides a supervised clinical experience emphasizing acute injury management, pathology, and prevention, designed to satisfy clinical education requirements for the professional athletic trainer. As a part of this experience, students will be assigned to a preceptor at an approved clinical site, which may include intercollegiate, interscholastic, recreational, or professional sports organizations and/or healthcare facilities. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Athletic Training.

**ATR 5150 Integrative Experience in Athletic Training I Cr. 4**
Provides a clinical experience designed to satisfy the clinical education requirements for a professional level AT curricular program. As a part of this experience, students will be supervised by a preceptor at an approved clinical site. Specific emphasis will be placed on taping and bracing techniques, acute care of athletic injuries and the injury evaluation process. Clinical skill integration and competency completion appropriate for current level of didactic coursework and clinical integration will be assessed. Offered Fall.

**Prerequisite:** ATR 5149 with a minimum grade of C

**ATR 5151 Integrative Experience in Athletic Training II Cr. 4**
Provides a supervised clinical experience designed to satisfy clinical education requirements for a professional level AT curricular program. As part of this experience, students will be supervised by a preceptor at an approved clinical site. Specific emphasis will be placed on orthopedic evaluation, the clinical diagnosis process and the clinical application of therapeutic modalities. Clinical skill integration and competency completion will be assessed. Offered Winter.

**ATR 5159 Pre-Season Integrative Experience II Cr. 1**
Students will engage in a second-year clinical experience, participating in a pre-season training camp. The experience will be designed to increase clinical competence concurrent with didactic material. This course provides a clinical field experience emphasizing progressive athletic training skills and procedures. As part of this experience, students will be assigned to a preceptor at an appropriate clinical site. Students will be assigned to intercollegiate, interscholastic, or professional sports organizations, rehabilitation facilities, or other health care facilities. Offered Spring/Summer.

**Restriction(s):** Enrollment is limited to students with a major in Athletic Training.

**ATR 5215 Medical and Pharmacologic Interventions Cr. 3**
Presents the practical components of clinical medicine to include pathology and pharmacology management of acute and chronic illnesses and injuries seen in the physically active. Offered Spring/Summer.

**Prerequisite:** ATR 5130 with a minimum grade of C and ATR 5145 with a minimum grade of C

**ATR 5225 Organization and Administration in Athletic Training Cr. 3**
Students will be acquainted with the proper organization and management techniques utilized by certified athletic trainers in health care administration of athletic training programs. Offered Fall.

**Prerequisite:** ATR 5140 with a minimum grade of C and ATR 5145 with a minimum grade of C and ATR 5215 with a minimum grade of C
ATR 5230 Transition to Practice Cr. 3
Students will engage in cumulative curricular clinical based scenarios encompassing all the domains of practice to prepare for the BOC exam. Exam preparedness will be evaluated and concurrent study strategies will be explored. Students will gain an understanding of the history and rationale for a variety of contemporary approaches, treatments and therapies in athletic training, while developing critical thinking skills for application, consistent with evidence based practice. Final mastery of professional competencies will be completed, demonstrating clinical skill readiness for transition to practice. Offered Winter.
Prerequisite: ATR 5151 with a minimum grade of C
Corequisite: ATR 5252

ATR 5250 Interprofessional Practice Experience Cr. 2
Exposes students to the clinical practices of multiple medical and allied health professions in addition to the certified athletic trainer. A directed clinical/field experience under the supervision of a preceptor designed to satisfy the clinical education requirements for the entry-level athletic trainer. Also, will assess specific clinical proficiencies required for the practice of athletic training. Offered Spring/Summer.
Prerequisite: ATR 5151 with a minimum grade of C
Corequisite: ATR 5215

ATR 5251 Integrative Experience in Athletic Training III Cr. 4
Provides a field experience emphasizing therapeutic exercise prescription and techniques, general medical conditions, and pharmacologic interventions. A directed clinical/field experience designed to satisfy the clinical education requirements for the entry-level athletic trainer. As part of this experience, students will be assigned to a preceptor at an appropriate clinical site. Students will be assigned intercollegiate, interscholastic, or professional sports organizations, rehabilitation facilities, or other health care facilities. Course also will assess specific clinical proficiencies required for the practice of athletic training. Offered Fall.
Prerequisite: ATR 5140 with a minimum grade of C and ATR 5145 with a minimum grade of C and ATR 5215 with a minimum grade of C

ATR 5252 Clinical Immersion in Athletic Training Cr. 6
Provides a field experience emphasizing administrative and professional aspects of athletic training. A directed clinical/field experience designed to satisfy the clinical education requirements for the entry-level athletic trainer. As part of this experience, students will be assigned to a preceptor at an appropriate clinical site. Students will be assigned intercollegiate, interscholastic, or professional sports organizations, rehabilitation facilities, or other health care facilities. Course also will assess specific clinical proficiencies required for the practice of athletic training. Offered Winter.