

ATHLETIC TRAINING (ATEG)

ATEG 50100 Biomedical Foundations of Clinical Science in Athletic Training (NLA)

An evidence-based approach to human tissue injury including normal anatomy & physiology, healing and degenerative processes, acute and chronic injury, exercise and movement, and implications for rehabilitation & restoration. Understanding of the relationships among connective tissues specific to sports injuries, issues of aging, and special populations. Examination of principles essential to clinical assessment strategies including diagnostic imaging, as well as intervention for the rehabilitation and prevention of orthopedic injury and dysfunction.

Prerequisites: EXSS 32100; EXSS 41100; EXSS 41200. (F)

3 Credits

ATEG 50200 Acute Care and Emergency Management in Athletic Training (NLA)

Gain an understanding of acute care and emergency situations. Examine the epidemiology and etiology of emergent injuries and illnesses. Learn how to evaluate patients with various conditions such as sudden cardiac arrest, concussion, cervical spine injury, heat illness, and other athletic related trauma. Understand and implement standard of care practices. Develop and apply intervention skills to properly prevent and treat these conditions within a hands-on lab-based setting. Prerequisites:

EXSS 41100; EXSS 41200. (F)

4 Credits

ATEG 50300 Clinical Pathoanatomy (NLA)

Advanced human anatomy course emphasizing musculoskeletal structure, function, and injury by extending and deepening prior knowledge using human cadaveric laboratory instruction. In-depth examination of common sports and activity-based injuries will be integrated. Students are expected to apply and implement anatomy, biomechanics, and clinical reasoning to common sports-related injuries.

Prerequisites: EXSS 22000; EXSS 32100. (F)

3 Credits

ATEG 50400 Professional Practice in Athletic Training (NLA)

Exploration of the athletic training professional practice. Orientation and implementation of athletic training policies and procedures. Acquire and demonstrate standard documentation procedures, including electronic medical records. Understand and utilize effective healthcare related communication. Skill development and application of taping and wrapping skills. Prerequisites: EXSS 41200. (F)

2 Credits

ATEG 50500 Practicum in Athletic Training I (NLA)

Supervised practical experience in a clinical setting focused on the application of clinical skills acquired in previous and current coursework. Clinical milestones include execution of competencies relative to patient management, acute and emergency care, injury prevention, documentation, and professional behaviors. Prerequisites: EXSS 41200.

(F)

3 Credits

ATEG 50600 Assessment of Musculoskeletal Conditions and Injuries (NLA)

In-depth analysis of complete assessment theories, procedures, principles and skills related to the evaluation of upper extremity, spine and lower extremity orthopedic injuries and conditions. Emphasis is placed on clinical reasoning, evidence-informed practice, and the anatomical basis and mechanisms of athletic injuries and conditions common in active populations and athletics. Skill instruction and lab-based practice included to develop essential practical skills germane to orthopedic assessment. Prerequisites: ATEG 50100. (S)

4 Credits

ATEG 50700 Clinical Principles of Medical Science (NLA)

Examine the etiology, pathology, process, diagnosis and treatment of diseases of the human body. Emphasis is placed on the immune, cardiovascular, pulmonary, gastrointestinal, endocrine, renal, urogenital, dermatological systems and their associated disorders and conditions. Analysis of pharmacological interventions and their application will be discussed. Lab activities will enhance clinical skills for assessment of common medical conditions. Prerequisites: ATEG 50100; ATEG 50200.

(S)

4 Credits

ATEG 50800 Therapeutic Interventions in Athletic Training I (NLA)

Through integrated didactic and laboratory instruction and practice, students will acquire evidence-based theories and techniques for therapeutic interventions commonly utilized during the "Preparation for Healing" phase in the management of acute and chronic injuries and conditions in active populations and sport. Prerequisites: ATEG 50100.

(S)

4 Credits

ATEG 51000 Practicum in Athletic Training II (NLA)

Supervised practical experience in a clinical setting focused on the application of clinical skills acquired in previous and current coursework. Clinical milestones include execution of competencies relative to assessment of musculoskeletal injuries, recognition and care of general medical conditions, selection and application of therapeutic interventions, documentation, and professional behaviors. Prerequisites:

ATEG 50500. (S)

3 Credits

ATEG 51100 Clinical Research in Athletic Training I (NLA)

This first of a 3-semester clinical research sequence prepares students to be clinician-scientists by addressing key elements of clinical research in athletic training. Students will initiate a clinical research project.

Prerequisites: EXSS 41100. (U)

2 Credits

ATEG 51500 Clinical Capabilities in Athletic Training (NLA)

Examine various aspects of clinical practice common in active and athletic populations including pharmacology, dermatology, and diagnostic imaging. Identify commonly used medications and differentiate various categories of pharmaceuticals used in athletic training. Explore and gain an understanding of diagnostic imaging techniques and laboratory testing. Describe and identify common dermatological conditions and treatment paradigms. Prerequisites: ATEG 51000. (U)

2 Credits

ATEG 60400 Foundations of Health Care Delivery and Administration (NLA)

Addresses the organization and administration of health care delivery systems specific to athletic training. Emphasis on continual quality improvement, patient and clinical outcomes, payor systems and reimbursement, legal aspects, and operational management.

Prerequisites: ATEG 50400. (S)

3 Credits

ATEG 60500 Practicum in Athletic Training III (NLA)

Supervised practical experience in a clinical setting focused on the application of clinical skills acquired in previous and current coursework.

Clinical milestones include execution of advanced competencies relative to clinical care and selection and application of therapeutic interventions, demonstration of evidence based practice, documentation, and professional behaviors. Prerequisites: ATEG 51000. (F)

3 Credits

ATEG 60700 Medical and Health Aspects of Athletic Training Practice (NLA)

Develop and apply clinical skills related to special populations, and the multidimensional aspects of health, wellness, and sport performance.

Prerequisites: ATEG 50700. (S)

2 Credits

ATEG 60800 Therapeutic Interventions in Athletic Training II (NLA)

Acquisition and application of essential theories, skills, and practices for the restoration of function and return to participation will be presented. Evidence-based theories, principles and techniques will be utilized to develop, maintain and/or improve components of functional performance. Emphasis will be placed upon therapeutic reasoning related to the dynamics of skill acquisition and rehabilitation of athletic injuries and conditions. Skill instruction and lab-based practice will be included to develop essential practical skills germane to therapeutic interventions for restoring functional performance and participation in physical activity.

Prerequisites: ATEG 50800. (F)

4 Credits

ATEG 61000 Practicum in Athletic Training IV (NLA)

Supervised practical experience in a clinical setting focused on the application of clinical skills acquired in previous and current coursework.

Students will demonstrate increased autonomy and clinical capability across all domains of professional practice, demonstrating professional behaviors and communication. Includes 4 week, full time clinical immersion rotation either on or off campus. Prerequisites: ATEG 60500.

(S)

5 Credits

ATEG 61100 Clinical Research in Athletic Training II (NLA)

This second course of a 3-semester clinical research sequence prepares students to be clinician-scientists by addressing key elements of clinical research in athletic training. Students will continue work on a clinical research projects. Prerequisites: ATEG 51100. (F)

2 Credits

ATEG 61200 Clinical Research in Athletic Training III (NLA)

This final course of a 3-semester clinical research sequence prepares students to be clinician-scientists by addressing key elements of clinical research in athletic training. Students will complete work on a clinical research project. Prerequisites: ATEG 61100. (S)

2 Credits

ATEG 61500 Advanced Clinical Capabilities in Athletic Training (NLA)

Apply evidence-based theory and develop techniques concerning the assessment and treatment of the spine and peripheral joints.

Formulate and design rehabilitation interventions for athletes and active populations. Prerequisites: ATEG 60500. (S)

2 Credits