

Athletic Training Course Descriptions

UPDATED 10/08/09

Prerequisites are listed *in italics*.
Terms offered are CAPITALIZED.

AT 115. Prevention and Care of Athletic Injuries (3). *AT major or permission of instructor.* This course introduces clinical approaches to the prevention and treatment of injuries common to active lifestyles, including acute and overuse injuries. This class is designed to give a general overview of all aspects of athletic training. **WINTER TERM ONLY. Instructor(s): Palmieri-Smith**

AT 117. Prevention and Care of Athletic Injuries Lab (1). *AT major or permission of instructor; students must be concurrently enrolled in AT 115.* This course is designed to introduce techniques used in risk management and the prevention and care of athletic injuries and illnesses. Emphasis is placed upon skills necessary to manage and prevent injuries common to active lifestyles, including acute and overuse injuries. Provides students with a laboratory experience in which skills relative to risk management and injury prevention are practiced. **WINTER TERM ONLY. Instructor(s): Pickerman**

AT 200. Clinical Experience in Athletic Training A (1-3). *Declared AT major; sophomore standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the areas of risk management and acute care. **FALL TERM ONLY. Instructor(s): Czajka**

AT 205. Clinical Experience in Athletic Training B (1-3). *Declared AT major; sophomore standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the areas of risk management and acute care. **WINTER TERM ONLY. Instructor(s): Czajka**

AT 210. Clinical Evaluation of Upper Extremity Athletic Injuries (3). *AT 115, AT 117.* This course is designed to help students develop the knowledge, skills, and abilities necessary to evaluate and assess injuries to the upper extremity and spine. The content covered in this course prepares students for the NATABOC Certification Examination and is critical for development as a competent health care professional. **FALL TERM ONLY. Instructor(s): Palmieri-Smith**

AT 212. Clinical Evaluation of Upper Extremity Athletic Injuries Lab (1). *AT 115, AT 117; students must be concurrently enrolled in AT 210.* This course provides students with a laboratory experience in which upper extremity orthopedic evaluation skills are practiced. **FALL TERM ONLY. Instructor(s): STAFF**

AT 215. Clinical Evaluation of Lower Extremity Athletic Injuries (3). *AT 115, AT 117, AT 210, AT 212; previous course in anatomy.* This course is designed to help students develop the knowledge, skills and abilities necessary to evaluate and assess injuries to the lower extremity. **WINTER TERM ONLY. Instructor(s): Czajka**

AT 217. Clinical Evaluation of Lower Extremity Athletic Injuries Lab (1). *AT 115, AT 117, AT 210, AT 212; previous course in anatomy; students must be concurrently enrolled in AT 215.* This course is designed to provide students with a laboratory experience in which lower extremity orthopedic evaluation skills are practiced. **WINTER TERM ONLY. Instructor(s): Thomas**

AT 300. Clinical Experiences in Athletic Training C (1-3). *Admission to Athletic Training Program; junior standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the

areas of injury prevention, assessment, and management. **FALL TERM ONLY. Instructor(s): Czajka**

AT 305. Clinical Experiences in Athletic Training D (1-3). *Admission to Athletic Training Program; junior standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the areas of injury prevention, assessment, and management. **WINTER TERM ONLY. Instructor(s): Czajka**

AT 310/PHYSED 310. Applied Human Anatomy and Physiology (5). Designed to give the student a basic understanding of the structural and functional organization of the human body. Analyzes the relationships of the human body at the biochemical, cellular, tissue, organ, and systems level, emphasizing the applications to physical education. **WINTER TERM ONLY. Instructor(s): McLean**

AT 313. Special Topics (1-4). New courses in development can be introduced provisionally into the curriculum under this number. The current course description, if applicable, is available from the program chair. **FALL OR WINTER, AS ARRANGED.**

AT 326. Fundamentals of Strength and Conditioning is now **PHYSED 326.**

AT 350. Therapeutic Modalities (3). *AT major or permission of instructor; previous course in anatomy.* This course is designed to introduce students to the knowledge, skills and values important to plan, implement, and evaluate the efficacy of therapeutic modalities in the treatment of injuries and illnesses of athletes and others involved in physical activity. **FALL TERM ONLY. Instructor(s): Czajka**

AT 352. Therapeutic Modalities Lab (1). *Previous course in anatomy; AT major or permission of instructor; students must be concurrently enrolled in AT 350.* This course is designed to introduce students to the knowledge and skills important to the application of therapeutic modalities in the treatment of injuries and illnesses of athletes and others involved in physical activity. **FALL TERM ONLY. Instructor(s): Shinavier**

AT 360. Therapeutic Rehabilitation of Athletic Injuries (3). *AT 350; previous course in anatomy.* AT 360 will provide knowledge to students regarding the physiology of musculoskeletal trauma and its subsequent effects on tissues as a basis for rehabilitation. Therapeutic exercise techniques and the development of rehabilitation programs will be covered. **FALL TERM ONLY. Instructor(s): Czajka**

AT 362. Rehabilitation of Athletic Injuries Lab (1). *AT 350; previous course in anatomy; students must be concurrently enrolled in AT 360.* AT 362 is designed to provide students with a laboratory experience in which techniques used in the rehabilitation of musculoskeletal injuries can be applied. **FALL TERM ONLY. Instructor(s): STAFF**

AT 375. Pathophysiology for the Allied Health Professions (3). *Previous course in anatomy and physiology.* This course is designed to provide students with a basic understanding of the cellular and molecular mechanisms responsible for disease processes. **WINTER TERM ONLY. Instructor(s): Czajka**

AT 400. Clinical Experiences in Athletic Training E (1-3). *Admission to Athletic Training Program; senior standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the areas of risk management, therapeutic exercise, and general medical conditions. **FALL TERM ONLY. Instructor(s): Czajka**

AT 402. Teaching Experience for AT Students (1-3). *Permission of instructor; junior/senior status; minimum B+ in related AT/PE core courses recommended.* Undergraduate students participating in this course are responsible for (1) aiding regularly assigned teaching faculty in a particular course; (2) providing tutorial help for undergraduate students enrolled in the course they are assisting in; (3) meeting regularly with discussion and/or laboratory sessions; (4) participating with teaching faculty in instructional activities. May be repeated once in a different area or with a different professor. Credits count as Kinesiology elective credit. **FALL/ WINTER/ SPRING/ SUMMER. Instructor(s): STAFF**

AT 403. Internship in Athletic Training (1-4). *Junior/senior status; permission of instructor.* Students will be required to complete a field experience related to the academic discipline of Athletic Training. Experiences are typically completed outside of The University of Michigan Athletic Department and The School of Kinesiology. S/U grading only. **FALL/ WINTER/ SPRING/ SUMMER. Instructor(s): Reck**

AT 405 Clinical Experiences in Athletic Training F (1-3). *Admission to Athletic Training Program; senior standing.* This experience is designed to expose the student to experiences common to the practice of athletic training and to allow the student to demonstrate clinical proficiency in the areas of risk management, therapeutic exercise, and general medical conditions. **WINTER TERM ONLY. Instructor(s): Czajka**

AT 410. Athletic Training Administration (3). *AT major; senior standing.* This course is designed to educate students on the management and administration of health care to physically active individuals. The class is a culminating experience to prepare students to become entry-level professionals. By completing this class, students should demonstrate mastery in health care management concepts and display the values in health care administration consistent with the Code of Ethics of the National Athletic Trainers Association and Standards of Practice for Athletic Trainers. **FALL TERM ONLY. Instructor(s): Mendias**

AT 420. Pharmacology for the Allied Health Professions (3). *Previous course in anatomy and physiology.* This course is designed to provide students with a basic understanding of pharmacology emphasizing drug law, routes of administration, basic pharmacokinetics, and the specific pharmacology of drugs commonly used in physical medicine. **FALL TERM, AS ARRANGED. Instructor(s): Mendias**

AT 488. Independent Study AT (1-2). *Junior standing, permission of instructor.* Students work with an individual professor on a mutually agreed-upon project that may include readings, research or other academic experience. **FALL/ WINTER/ SPRING/ SUMMER. SEE FACULTY ADVISOR. Instructor(s): STAFF**