ATHLETIC TRAINING (MAT)

MAT 1000 - Intro to Athletic Training
Credit(s): 1 Credit
This course introduces students to the athletic training profession and explores the specialties and opportunities for practice. The students participate in lectures and seminars by the athletic training faculty and practitioners across practice areas, including high school, collegiate professional, private and industrial settings. The historical foundations of athletic training and the evolution of the contemporary practice of athletic training are discussed.

MAT 2000 - Athletic Training Student Development I
Credit(s): 1 Credit
This course is designed to move the student from thinking about the profession of athletic training to thinking about him/herself as a future professional and an athletic trainer. Students explore the Foundational Behaviors of Professional Practice in Athletic Training. The concept of the Jesuit Mission is expanded to include consideration of the integration of Foundational Behaviors of Professional Practice. Essentials of effective career development including communication skills, critical thinking, professional networking, cultural competence, and time and energy management are addressed.

MAT 2930 - Special Topics
Credit(s): 1-3 Credits (Repeatable for credit)

MAT 2980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)

MAT 3000 - Athletic Training Student Development II
Credit(s): 2 Credits
This course introduces the student to the cognitive, psychomotor and affective skills integral to athletic training. These abilities lay the foundation for the development of competency in clinical practice. They are also necessary for taping, bracing, injury prevention and emergency care.

Prerequisite(s): (CORE 1500, CORE 1500, CORE 1500, CORE 1500, CORE 1500, and CORE 1500)
Attributes: UUC:Self in the World

MAT 3230 - Exercise Physiology
Credit(s): 0 or 3 Credits
This course examines types of exercise, muscle physiology and training regimens to improve muscle strength, power and endurance. Cardiovascular and pulmonary responses to exercise and training regimens will be included. Concepts of obesity and its management also will be covered.

Prerequisite(s): ANAT 1000, MAT 3230 with a grade of C or higher

MAT 3930 - Special Topics
Credit(s): 1-4 Credits (Repeatable for credit)

MAT 3980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)

MAT 4930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)

MAT 4970 - Mastery Assurance
Credit(s): 0 Credits
The purpose of this course is to provide students with the opportunity to master course content not mastered in the prior semester. Content will be completed as described in the criteria listed on a mastery assurance learning contract set up between the instructor and the student.

MAT 4980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)

MAT 5010 - Principles of Athletic Training
Credit(s): 2 Credits
This course establishes the role of the certified athletic trainer in the prevention, recognition and treatment of commonly encountered athletic injuries. Basic concepts of injury prevention, mechanisms of injury, injury evaluation, and acute injury management are covered. Laboratory sessions to demonstrate and practice taping and wrapping are included. Offered every summer.

MAT 5125 - Therapeutic Modalities
Credit(s): 0 or 3 Credits
This course covers the physical, physiological, and therapeutic aspects of physical agents used as adjunctive interventions in treatment and rehabilitation. This course also is concerned with the physical, biological, physiological and psychological rationale for utilizing physical agents. The course covers the theoretical and practical knowledge of specific modalities and the integration of these treatment procedures into an overall rehabilitation plan.

MAT 5160 - Aspects of Nutrition
Credit(s): 2 Credits
This course establishes the role energy, metabolism, energy costs, associated metabolic changes, gender influences on metabolism, resting metabolic rate, and the thermal effects of food. All of these factors will be addressed specifically as they are evident in athletic performance.

Prerequisite(s): ANAT 1000, MAT 3230 with a grade of C or higher
Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.

MAT 5160X - Aspects of Nutrition
Credit(s): 2 Credits
This course covers basic fundamentals of human nutrition science. The course examines dietary guidelines for Americans; nutrition across the lifecycle; nutrition digestion, absorption, and metabolism; medical nutrition therapy for specific disease states—as would apply to patients seen in a physical therapy settings; nutrition and exercise; and nutrition supplementation use.

MAT 5240 - Musculoskeletal Assessment and Management I
Credit(s): 0 or 4 Credits
This course explores the pathokinematics of selected pathologies within the upper quadrant of the human body; relevant examination techniques to assist in differential diagnosis, and subsequent intervention measures.

Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.

MAT 5250 - Musculoskeletal Assessment and Management II
Credit(s): 0-4 Credits
This course covers the pathokinematics of selected pathologies within the lower quadrant and the examination, diagnosis and treatment of those conditions. Treatment procedures discussed and practiced include use of mobilization of bony and soft tissues, and other forms of active and passive exercise, both mechanical and non-mechanical, for a broad range of musculoskeletal conditions.
MAT 5500 - Rehabilitation in Athletic Training I
Credit(s): 0-4 Credits
This course provides a framework for the design and implementation of athletic rehabilitation programs. The emphasis in the course is the use of therapeutic exercise in the treatment of athletic injuries and post-surgical conditions. Rehabilitation programs are considered from an early stage through terminal conditioning and functional return. Advanced high-level activities are reviewed including plyometrics and advanced proprioceptive activities.

MAT 5550 - Rehabilitation in Athletic Training II
Credit(s): 3 Credits
This course provides an evidence-based approach to rehabilitation of injuries and conditions associated with athletic participation. The emphasis in the course is the development of rehabilitation protocols utilizing therapeutic modalities and therapeutic exercise. Surgical and non-surgical approaches to conditions and injuries will be addressed.

MAT 5600 - Athletic Training Administration
Credit(s): 3 Credits
This course is concerned with the organization and administration of athletic training services in high school, collegiate, and professional athletics, as well as non-traditional athletic training sites including industry and health clubs. Topics of emphasis include medicolegal liability, budgeting, facility design, documentation and record keeping, drug testing, professional ethics, pharmacology issues and components of pre-participation physicals. NCAA compliance issues will also be discussed.

MAT 5620 - Psychology of Sport and Injury
Credit(s): 3 Credits
This course examines the effects of culture, motivation, personality, attitudes, competition and group dynamics on sport performance. In addition, the psychological effects of exercise and competition are discussed, including pathological conditions such as exercise addiction and disordered eating. This course also deals with psychological response to injury, treatment, rehabilitation and return to participation.

Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.

MAT 5650 - Research in Athletic Training
Credit(s): 2 Credits
Change Course Description to: This course will introduce athletic training students to several types of clinical research designs including designs for group studies, epidemiological studies, survey research and qualitative studies. Review of literature, definition of problem and formatting design, reporting data and conclusions are presented. Interpretation of selected statistical methods will also be included.

MAT 5700 - AT Clinical Practicum I
Credit(s): 3 Credits (Repeatable for credit)
This course is designed to provide the student with the first clinical experience in athletic training. Building on the basic knowledge acquired in MAT 501, the student will work in the training room under the supervision of an approved clinical instructor (ACI). The focus in this experience will be familiarization with the training room environment, developing competency in taping/wrapping, documentation and record-keeping, and practice/game preparation.

Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.

MAT 5750 - AT Clinical Practicum II
Credit(s): 3 Credits (Repeatable for credit)
This is the second clinical course for the athletic training student. In this course, the student is assigned to an intercollegiate team for the semester and assists the ACI with pre-participation exams, daily preparation and coverage of practices and games (home and away) and injury management and rehabilitation. The student focuses on developing competency in the examination and treatment of upper and lower extremity injuries during this semester.

MAT 5800 - Medical Conditions and Physical Activity
Credit(s): 4 Credits
This course is a review of responses of the body to exercise and sports with specific discussion of acute and chronic medical problems that can affect athletic performance. Medical conditions that are emphasized include asthma, diabetes, cardiac abnormalities, and viral diseases. In addition, this course covers dermatological conditions encountered in sport.

Prerequisite(s): PPY 2540
Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.

MAT 5900 - AT Field Experience
Credit(s): 2 Credits
This is an internship with the athletic training staff of an outside agency affiliated with the program. Documentation will be kept in a portfolio format.

MAT 5930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)

MAT 5980 - Independent Study
Credit(s): 1-3 Credits (Repeatable for credit)

MAT 5990 - AT Field Experience
Credit(s): 2 Credits
This course is concerned with the organization and administration of athletic training services in high school, collegiate, and professional athletics, as well as non-traditional athletic training sites including industry and health clubs. Topics of emphasis include medicolegal liability, budgeting, facility design, documentation and record keeping, drug testing, professional ethics, pharmacology issues and components of pre-participation physicals. NCAA compliance issues will also be discussed.

MAT 6160 - Enhancing Human Performance
Credit(s): 2-3 Credits
This course is designed for students to use knowledge of anatomy, physiology, kinesiology, and coaching techniques in designing strength and conditioning programs for athletes. Consideration will be given to strategies for improving sports-specific agility, speed, power, strength, and cardiovascular/respiratory fitness.

Restrictions:
Enrollment limited to students in the Physical Thrp/Athletic Train department.
MAT 6700 - AT Clinical Practicum III  
Credit(s): 4 Credits (Repeatable for credit)  
This is the third clinical course for the athletic training student. Expanding on their prior experience, students will be assigned for the semester as a senior student athletic trainer for one of the intercollegiate teams, and will also have additional training room coverage hours. Through the mentoring of the ACI and these expanded responsibilities, the student is expected to show development of the communication, time management and organizational skills necessary to succeed in a high volume athletic training setting. With an emphasis on problem solving and critical thinking skill development, the student will be expected to take a more active role when providing athletic health care to the injured athletes.

MAT 6750 - AT Clinical Practicum IV  
Credit(s): 4 Credits (Repeatable for credit)  
In this final clinical experience, students will be assigned to an athletic training site for the semester under supervision and instruction from an ACI. The fieldwork will emphasize greater involvement in the day-to-day organization and administrative tasks and professional development and responsibilities.

MAT 6800 - Seminar in Athletic Training  
Credit(s): 3 Credits  
In this course, students will fine-tune their clinical skills in preparation for the NATA certification examination. Advanced topics in Athletic Training will be presented by a variety of health care providers.

MAT 6930 - Special Topics  
Credit(s): 3 Credits (Repeatable for credit)

MAT 6960 - AT Capstone Project  
Credit(s): 2 Credits  
In this capstone course in the final semester, the student will select a study a topic in athletic training. Each student selects a faculty advisor to provide guidance in planning, coordinating, conducting and presenting the project. The study can take several different forms including a literature review, a mentored research project with a faculty member, or a community service project in athletic training.

MAT 6980 - Independent Study  
Credit(s): 1 or 3 Credits (Repeatable for credit)