



Texas A&M University  
Master of Science in Athletic Training

**Course Descriptions**

- ATTR 651 Clinical Education I. 2 credits**  
Integration of clinical competencies with classroom instruction and a supervised field based experience in athletic training to link theory into practice.  
Prerequisite: Enrollment in MS athletic training program.
- ATTR 652 Clinical Education II. 3 credits**  
Integration of clinical competencies with classroom instruction and a supervised field based experience in athletic training to link theory into practice.  
Prerequisite: ATTR 651, ATTR 660, ATTR 661 with a C or better.
- ATTR 653 Clinical Education III. 3 credits**  
Integration of clinical competencies with classroom instruction and a supervised field based experience in athletic training to link theory into practice.  
Prerequisite: ATTR 652, ATTR 662, ATTR 663, ATTR 668, ATTR 669 with a C or better.
- ATTR 655 Clinical Education V. 3 credits**  
Integration of clinical competencies with classroom instruction and a supervised field based experience in athletic training to link theory into practice.  
Prerequisite: ATTR 653, ATTR 664, ATTR 665, ATTR 671 with a C or better.
- ATTR 656 Clinical Education VI. 3 credits**  
Integration of clinical competencies with classroom instruction and a supervised field based experience in athletic training to link theory into practice.  
Prerequisite: ATTR 655, ATTR 666, ATTR 667, ATTR 670 with a C or better.
- ATTR 660 Prevention and Care of Athletic Injuries. 3 credits**  
Prevention strategies and procedures, recognition and care of common injuries and conditions. Foundational concepts and principles of the athletic training profession are included. Prerequisite: Enrollment in MS athletic training program.
- ATTR 661 Prevention and Care of Athletic Injuries Lab. 1 credit**  
Laboratory to accompany ATTR 660; application of theories and skill practice.

- ATTR 662 Clinical Examination and Diagnosis-Lower Extremity. 3 credits**  
Pathomechanics, clinical examination, diagnosis and appropriate medical referral of orthopedic injuries and other conditions to the lower extremity and spine.  
Prerequisite: Enrollment in MS athletic training program.
- ATTR 663 Clinical Examination and Diagnosis -Lower Extremity Lab. 1 credit**  
Laboratory to accompany ATTR 662; application of theories and skill practice.  
Prerequisite: Enrollment in MS athletic training program.  
\*Course includes cadaver lab.
- ATTR 664 Clinical Examination and Diagnosis-Upper Extremity. 3 credits**  
Pathomechanics, clinical examination, diagnosis and appropriate medical referral of orthopedic injuries and other conditions to the upper extremity, head and cervical spine. Prerequisite: ATTR 662 with a C or better.
- ATTR 665 Clinical Examination and Diagnosis -Upper Extremity Lab. 1 credit**  
Laboratory to accompany ATTR 664; application of theories and skill practice.  
Prerequisite: Enrollment in MS athletic training program.  
\*Course includes cadaver lab.
- ATTR 666 Physical Rehabilitation. 3 credits**  
The study of physical rehabilitation theory and techniques used as a therapeutic intervention for orthopedic injuries and conditions. Prerequisite: Enrollment in MS athletic training program.
- ATTR 667 Physical Rehabilitation Lab. 1 credit**  
Laboratory to accompany ATTR 666; application of theories and skill practice.  
Prerequisite: Enrollment in MS athletic training program.
- ATTR 668 Therapeutic Modalities. 3 credits**  
A detailed study of modern therapeutic devices used in the treatment and rehabilitation of orthopedic injuries and conditions. Prerequisite: Enrollment in MS athletic training program.
- ATTR 669 Therapeutic Modalities Lab. 1 credit**  
Laboratory to accompany ATTR 668; application of theories and skill practice.  
Prerequisite: Enrollment in MS athletic training program.
- ATTR 670 General Medical Conditions and Therapeutic Medication. 3 credits**  
Pathophysiology, assessment, and appropriate intervention and referral for general medical conditions and disabilities; common diagnostic tests and imaging assessment tools including commonly used therapeutic medications. Prerequisite: Enrollment in MS athletic training program.
- ATTR 671 Organization and Administration in Athletic Training. 3 credits**  
Organization and administration of athletic training services including financial,

human resources, facility, information technology and risk management.  
Prerequisite: Enrollment in MS athletic training program.

- ATTR 672 Professional Preparation and Issues in Athletic Training. 3 credits**  
Knowledge and skills for successful pursuit of athletic training credentials, employment and continuing professional competencies; emphasis on current topics and issues contributing to the professional preparation of athletic training.  
Prerequisite: Enrollment in MS in athletic training program.
- ATTR 673 Manual Therapy in Athletic Training. 2 credits**  
Manual therapy theory and techniques used as a therapeutic intervention for orthopedic injuries and conditions; indications and contradictions for the use of manual therapy; skill development in soft tissue assessment; application of manual and tool assisted techniques.
- KINE 601 Reading Research (Research Methods). 3 credits**  
Instruction in, and development of, research skills through the study of published reports and readings in kinesiology.
- KINE 628 Nutrition in Sports and Exercise. 3 credits**  
Interaction between nutrition, exercise, and athletic performance: including: biomechanical and physiological aspects of nutrition and exercise; nutrition for training and competition; exercise and oxidant stress; nutritional supplements and ergogenic acids; and, nutritional aspects of body composition and weight control.  
Prerequisite: Graduate classification; BIOL 320; KINE 433 or approval of instructor.
- KINE 629 Physiology of Strength and Conditioning. 3 credits**  
Physiological, bio-mechanical, and metabolic aspects of muscular strength and conditioning programs for various athletic and non-athletic populations; review of resistance training based on scientific literature; promote the use of a structured scientific approach in the prescription of progressive resistance training.  
Prerequisite: Graduate classification, BIOL 320; KINE 433 or approval of instructor.
- KINE 681 Seminar. 1 credit**  
Reports and discussions of topics of current interest in kinesiology.
- KINE 685 Directed Studies. 2 credits**  
Directed study of selected problems in athletic training.
- KINE 690S Theory of Kinesiology (Statistics). 3 credits (S/U)**  
Theory and design of research problems and experiments in various subfields of the discipline; communication of research proposals and results; evaluation of current research of faculty and students and review of current literature.