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.