ATHLETIC TRAINING (ATTR)

ATTR 200  Introduction to Athletic Training  3 Credit Hour(s)
An introduction to the profession of athletic training. Topics also include basic methods of care, treatment, and rehabilitation of athletic injuries.
Offered: Resident

ATTR 205  Musculoskeletal Terminology and Clinical Documentation  2 Credit Hour(s)
Foundations of scientific and medical vocabulary with specific discussion of anatomical, musculoskeletal and differential diagnostic terminology associated with the Allied Health Fields. Significant time will be devoted to the understanding of the proper application of scientific and medical vocabulary as it relates to the Allied medical practice of formal written and electronic documentation (SOAP Notes) for proper medical referral and reimbursement.
Offered: Resident

ATTR 210  Principles of Athletic Training  3 Credit Hour(s)
Introduction of Basic Athletic Training. Topics include: pre-participation exam; modalities; and prevention. Laboratory experiences are provided.
Offered: Resident

ATTR 211  Principles of Athletic Training Lab  1 Credit Hour(s)
Prerequisite: ATTR 210 (may be taken concurrently)
This class is in directed support of ATTR 210 and is designed to clinical application of preventative and treatment techniques associated with athletic training.
Offered: Resident

ATTR 221  Clinical Education I  2 Credit Hour(s)
Prerequisite: ATTR 200 and BIOL 213 and BIOL 214
Didactic and psychomotor skill instruction of competencies in Athletic Training. Emphasis will be placed on the application of extremity taping/wrapping and emergency care of athletic injuries through clinical scenarios. Will include a clinical education rotation.
Offered: Resident

ATTR 225  Clinical Kinesiology for Health Professionals  2 Credit Hour(s)
Prerequisite: BIOL 213 (may be taken concurrently) and BIOL 214 (may be taken concurrently)
Students will gain knowledge of clinical musculoskeletal human anatomy through a variety of Instructional techniques. The focus of the course will be on learning: bony landmarks, muscle origins and insertions, how to assess each muscle, & how to assess range of motion.
Registration Restrictions: For ATEP provisionally accepted students
Offered: Resident

ATTR 226  Clinical Kinesiology for Health Professionals Laboratory  1 Credit Hour(s)
Students will apply knowledge of clinical musculoskeletal human anatomy through a variety of hands on activities. The focus of the course will be to practice identifying bony landmarks and muscle origins and insertions along with demonstrating how to perform manual muscle testing & how to assess range of motion
Registration Restrictions: For ATEP provisionally accepted students only
Offered: Resident

ATTR 299  Internship  0 Credit Hour(s)
Direct applicable work experience under the supervision of the Athletic Training Faculty Intern Advisor. Application processed through the Career Center. Must apply semester prior to internship.
Registration Restrictions: Sophomore status, 2.00 GPA, two courses in major, declared major, not more than one CSER behind
Offered: Resident

ATTR 300  Lower Extremity Injury Evaluation  3 Credit Hour(s)
Prerequisite: ATTR 200 and BIOL 213 and BIOL 214
Methods of evaluation of athletic injuries are investigated, including history, inspection, palpation, and orthopedic and neurologic testing with focus on the lumbar area and lower extremities.
Offered: Resident

ATTR 301  Lower Extremity Injury Evaluation Laboratory  1 Credit Hour(s)
Prerequisite: ATTR 200 and BIOL 213 and BIOL 214
The methods of evaluation including history, inspection, palpation, and orthopedic and neurological testing of athletic injuries will be practiced in a hands-on laboratory environment. This laboratory experience will focus on lower extremity injuries.
Offered: Resident

ATTR 302  Upper Extremity Injury Evaluation  3 Credit Hour(s)
Prerequisite: ATTR 300
Methods of evaluating injuries to the physically active are investigated including history, inspection, palpation, and orthopedic and neurological testing. Focus includes evaluation of injuries to the upper extremity, head, neck and thorax. Other topics include management of crisis situations and facial injuries related to athletic participation.
Offered: Resident

ATTR 303  Upper Extremity Injury Evaluation Laboratory  1 Credit Hour(s)
Prerequisite: ATTR 200 and ATTR 300 and ATTR 301 and BIOL 213 and BIOL 214
The methods of evaluation including history, inspection, palpation, and orthopedic and neurological testing of athletic injuries will be practiced in a hands-on laboratory environment. This laboratory experience will focus on upper extremity injuries.
Offered: Resident

ATTR 305  Emergency Care for Athletic Training  3 Credit Hour(s)
Prerequisite: ATTR 200 (may be taken concurrently) and ATTR 210 (may be taken concurrently) and BIOL 213 (may be taken concurrently) and BIOL 214 (may be taken concurrently)
Advanced level of first aid and CPR training for individuals who have a job-related 'duty to respond.' This course includes such topics as: CPR use of the resuscitation mask bag-valve mask and Automated External Defibrillator; anatomy; patient assessment; shock; bleeding; burns; oxygen and airway care; spine board use; and other medical emergencies.
Registration Restrictions: For ATEP provisionally accepted students only
Offered: Resident

ATTR 306  Emergency Care for Athletic Training Laboratory  1 Credit Hour(s)
Prerequisite: ATTR 200 (may be taken concurrently) and ATTR 210 (may be taken concurrently) and BIOL 213 (may be taken concurrently) and BIOL 214 (may be taken concurrently)
This lab course provides students with the application of advanced first aid and CPR training for individuals who have a job-related 'duty to respond.' This course is designed for students to gain proficiency in first aid skills as it relates to such topics as: CPR use of the resuscitation mask bag-valve mask and Automated External Defibrillator; anatomy; patient assessment; shock; bleeding; burns; oxygen and airway care; spine board use; and other medical emergencies discussed in ATTR 305.
Offered: Resident
### ATTR 310 Therapeutic Modalities in Athletic Training 3 Credit Hour(s)
**Prerequisite:** ATTR 305 and ATTR 306  
A study of theories and principles of uses of different modalities to enhance the healing of injuries. Lab experiences included.  
**Offered:** Resident

### ATTR 311 Therapeutic Modalities Laboratory 1 Credit Hour(s)
**Prerequisite:** ATTR 305 and ATTR 306  
This class presents the practical application of therapeutic modalities to enhance the healing of injuries. Laboratory experiences will include the set-up, application and probable outcomes of the use of various therapeutic modalities commonly used in athletic training.  
**Offered:** Resident

### ATTR 320 Clinical Education II 2 Credit Hour(s)
**Prerequisite:** ATTR 221  
Didactic and psychomotor skill instruction of competencies in Athletic Training. Emphasis will be placed on the application of lower extremity injury and illness evaluation of athletic injuries and therapeutic modalities through clinical scenarios. Will include a clinical education rotation.  
**Offered:** Resident

### ATTR 321 Clinical Education III 2 Credit Hour(s)
**Prerequisite:** ATTR 320  
Didactic and psychomotor skill instruction of competencies in Athletic Training. Emphasis will be placed on the application of upper extremity injury and illness evaluation of athletic injuries through clinical scenarios. Will include a clinical education rotation.  
**Offered:** Resident

### ATTR 325 Evidence Based Research in Athletic Training 2 Credit Hour(s)
**Prerequisite:** ATTR 225 and ATTR 226 and ATTR 305 and ATTR 306 and (RSCH 201 or Inquiry Research with a score of 80 or Research with a score of 80 or Research (prior to 2017-2018) with a score of 80)  
This class introduces the research process in athletic training with an emphasis on evidence-based medicine. Students will learn to evaluate the quality of available research evidence and interpret statistical data and relevance. Scientific writing experience will be gained in the form of research proposals, literature reviews, case studies and critical appraisals.  
**Offered:** Resident

### ATTR 330 Clinical Musculoskeletal Anatomy 3 Credit Hour(s)
**Prerequisite:** BIOL 213 and BIOL 214 and BIOL 215 and BIOL 216  
Students will gain and apply knowledge of clinical musculoskeletal human anatomy and function through a variety of Instructional Techniques/Methods. The focus of this course will be on learning: Identification of musculoskeletal anatomical landmarks, muscle origins and insertions, nerve innervations, how to assess each muscle’s range of motion (Active ROM-AROM) and joint range of motion (Passive ROM-PROM).  
**Offered:** Resident

### ATTR 331 Clinical Musculoskeletal Anatomy Lab 1 Credit Hour(s)
**Prerequisite:** BIOL 213 and BIOL 214 and BIOL 215 and BIOL 216 and ATTR 330 (may be taken concurrently)  
Students will apply knowledge of clinical musculoskeletal human anatomy and function through a variety of hands on Laboratory activities. The focus of this course will be to practice identifying and palpation of musculoskeletal anatomical landmarks, muscle origins and insertions, nerve innervations, how to assess each muscle’s range of motion (Active ROM-AROM) and joint range of motion (Passive ROM-PROM).  
**Offered:** Resident

### ATTR 335 Musculoskeletal Injury Assessment 3 Credit Hour(s)
**Prerequisite:** ATTR 330 and ATTR 331 and ATTR 336 (may be taken concurrently)  
This course will provide students with the foundational knowledge required to perform a musculoskeletal injury evaluation. The principles taught in this course will include the following: 1) how to assess the history of an injury, 2) how to perform the observation portion of an evaluation, 3) how to utilize palpation when performing an injury evaluation, 4) how to perform resistive range of motion and manual muscle testing.  
**Offered:** Resident

### ATTR 336 Musculoskeletal Injury Assessment Laboratory 1 Credit Hour(s)
**Prerequisite:** ATTR 330 and ATTR 331 and ATTR 335 (may be taken concurrently)  
This course will provide students with the opportunity to practice the 'hands-on' skills that are required to perform a musculoskeletal injury evaluation in a laboratory setting. The principles taught in this course will include the following: 1) how to assess the history of an injury, 2) how to perform the observation portion of an evaluation, 3) how to utilize palpation when performing an injury evaluation, 4) how to perform resistive range of motion and muscle testing.  
**Offered:** Resident

### ATTR 400 Principles of Therapeutic Exercise and Rehabilitation 3 Credit Hour(s)
**Prerequisite:** ATTR 310 and ATTR 311 and BIOL 213 and BIOL 214 and BIOL 215 and BIOL 216  
In-depth study of theories and principles used to rehabilitate injuries to the physically active, as well as physiological and psychological factors affecting the rehabilitation function.  
**Offered:** Resident

### ATTR 402 Practical Applications in Therapeutic Exercise and Rehabilitation 3 Credit Hour(s)
**Prerequisite:** ATTR 400 and BIOL 213 and BIOL 214 and BIOL 215 and BIOL 216  
Lecture and laboratory experiences will include the application, instruction, progression and probable outcomes of the use of therapeutic exercises and rehabilitation techniques commonly used in athletic training.  
**Offered:** Resident

### ATTR 404 Medical Aspects of Athletic Training 3 Credit Hour(s)
**Prerequisite:** (ATTR 325 and ATTR 400)  
Recognition and treatment of general medical conditions and disabilities of athletes and others involved in physical activity. Application of pharmacological principles in the treatment of illness, injury, and disease for an athletic population. Includes lecture and laboratory experiences.  
**Offered:** Resident

### ATTR 405 Applied Pharmacology in Athletic Training 2 Credit Hour(s)
**Prerequisite:** ATTR 404  
Basic principles of pharmacology, including receptor mechanisms, drug distribution and metabolism, and pharmacokinetics. Lectures and tutorials on the interactions of drugs and biological systems as a basis for rational disease therapy as it relates to the physically active patient.  
**Offered:** Resident
ATTR 406  Theory of Therapeutic Rehabilitation  3 Credit Hour(s)
Prerequisite: ATTR 335 and ATTR 336
In-depth study of theories and principles used to rehabilitate injuries to
the physically active, as well as physiological and psychological factors
affecting the rehabilitation function.
Offered: Resident

ATTR 410  Administrative Aspects of Athletic Training  3 Credit Hour(s)
Prerequisite: ATTR 321 and ATTR 404
A study of the problems and considerations involved in the successful
management of an athletic training program. Areas discussed include:
budgeting; facility design; ordering and inventory; and legal liability.
Offered: Resident

ATTR 415  Leadership & Clinical Interactions in Athletic Training  3 Credit Hour(s)
Prerequisite: ATTR 410
This course will be to provide students with leadership skills to prepare
them to interact with a wide variety patients across cultures. This course
will also help students learn how to utilize their Christian faith to guide
their ethical decision making process as it relates to clinical interactions
in the Athletic Training Profession.
Offered: Resident

ATTR 420  Clinical Education IV  2 Credit Hour(s)
Prerequisite: ATTR 321
Didactic and psychomotor skill instruction of competencies in Athletic
Training. Emphasis will be placed on the application of therapeutic
exercise and rehabilitation through clinical scenarios. Will include a
clinical education rotation.
Offered: Resident

ATTR 421  Clinical Education V  2 Credit Hour(s)
Prerequisite: ATTR 420
Didactic and psychomotor skill instruction of competencies in Athletic
Training. Emphasis will be placed on the application of athletic training
administration through clinical scenarios. Will include a clinical education
rotation.
Offered: Resident

ATTR 425  Allied Healthcare Evidence-based Research Analysis  3 Credit Hour(s)
Prerequisite: MATH 201 and EXSC 320
Introduces the research process in allied healthcare with an emphasis on
evidence-based medicine. Students will learn to evaluate the quality of
available research evidence and interpret statistical data and relevance.
Scientific writing experience will be gained in the form of research
proposals, literature reviews, case studies, and critical appraisals.
Offered: Resident

ATTR 440  Senior Seminar in Athletic Training  2 Credit Hour(s)
Prerequisite: ATTR 402 and ATTR 404
A capstone course which will focus on reviewing the acquired knowledge
and experiences of the athletic training curriculum. Students will discuss
job search and interviewing skills, moral and ethical responsibility,
state licensure, continuing education, decision-making accountability
and conflict management. The NATA professional code of practice
and standards of practice will be reviewed. Preparation for the BOC
certification examination will be included.
Offered: Resident