

California State University, Long Beach 2025-2026 Undergraduate and Graduate Catalog

Courses

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Athletic Training

AT 207 - Prevention and Care of Athletic Injuries

(3 units)

An introduction to the profession of athletic training, and the principles and techniques of the prevention and care of common athletic injuries.

Letter grade only (A-F) (Lecture 2 hours, Activity 2 hours). Not open for credit to students with credit in KIN 207 or ATEP 207.

AT 309 - Developmental and Therapeutic Exercise

(3 units)

Prerequisites: AT 207 or [KIN 302](#), or consent of instructor.

Principles, techniques, and application of therapeutic exercise programs for managing musculoskeletal conditions.

Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours). Course cannot be repeated for credit. Not open for credit to students with credit in ATEP 309.

AT 500 - Athletic Training Healthcare and Clinical Skills

(2 units)

Prerequisite(s): Admission into the MSAT program.

Corequisite(s): AT 502, AT510, AT 520, AT 581, and KIN 696

Medical terminology, comprehensive electronic record management, healthcare practice and patient care standards, NATA Code of Ethics, and BOC Standards of Professional Practice in athletic training. Develop prevention and protection clinical skills and techniques related to restrictive, assistive and prophylactic devices.

Letter Grade Only (A-F) Lecture 1 hour, Activity 2 hours Not applicable

AT 502 - Emergency Management in Athletic Training

(1 unit)

Prerequisite(s): Admission into the MSAT program.

Corequisite(s): AT 500, AT 510, AT 520, AT 581, and KIN 696

Principles and techniques of prevention and health promotion standard care, immediate care, and emergency treatment, related to acute injury and illness in the clinical practice setting.

Letter Grade Only (A-F) Activity 2 hours Not applicable

AT 504 - Evidence-Based Practice and Testing in Athletic Training

(1 unit)

Prerequisite(s): AT 500, AT 502; KIN 696

Fundamentals of evidence-based practice, research design methods, research skills, testing skills, and current best field practices. Evidence-Based Practice utilizes PICO (population, intervention, comparison, outcome) techniques to incorporate evidence into decision making to achieve the best and most accurate patient outcomes.

Letter Grade Only (A-F). Lecture 1 hour Not applicable

AT 506 - Public Health and Epidemiology in Athletic Training

(2 units)

Prerequisite(s): AT 504

Public Health, epidemiology and population-based approaches integrated into athletic training injury/illness assessment and prevention practice. Evaluate the efficacy of clinical methods; introduce environmental, occupational health and safety practices, public health promotion, health behavior and policy.

Letter Grade Only (A-F) Not applicable

AT 510 - Athletic Training Clinical Evaluation I

(3 units)

Prerequisite(s): Admission to the MSAT program

Corequisite(s): AT 500, AT 502

Examination foundations and comprehensive evaluation of musculoskeletal pathologies based on the integration of anatomy and pathophysiology concepts. Course focus is foundations of examination and lower extremity and spine pathologies.

Letter Grade Only (A-F) Lecture 2 hours, Activity 2 hours Not applicable

AT 511 - Athletic Training Clinical Evaluation II

(3 units)

Prerequisite(s): AT 510

Comprehensive evaluation of musculoskeletal pathologies based on the integration of anatomy and pathophysiology concepts. Course focus is upper extremity, thorax, head, and brain pathologies.

Letter Grade Only (A-F) Lecture 2 hours, Activity 2 hours Not applicable

AT 515 - Medical Conditions and Pharmacology in Athletic Training

(3 units)

Prerequisite(s): AT 581

Recognition, treatment, and management of non-orthopedic medical conditions found in the physically active. Pharmacological principles and drug category applications used treating medical conditions and injuries. Legal and ethical issues, abused substances, performance enhancing drugs, and drug testing are addressed.

Letter Grade Only (A-F) Lecture 2 hours, Activity 2 hours Not applicable

AT 520 - Athletic Training Therapeutic Interventions I

(3 units)

Prerequisite(s): Admission to the MSAT program.

Corequisite(s): AT 510

Principles, techniques, and application of therapeutic exercise programs for management of musculoskeletal conditions. Course focus is foundation, lower extremity, and spine.

Letter Grade Only (A-F) Lecture 2 hours, Activity 2 hours Not applicable

AT 521 - Athletic Training Therapeutic Interventions II

(3 units)

Prerequisite(s): AT 520

Corequisite(s): AT 511

Principles, techniques, and application of therapeutic exercise programs for management of upper extremity, thorax, and head musculoskeletal conditions.

Letter Grade Only (A-F) Lecture 2 hours, Activity 2 hours Not applicable

AT 525 - Athletic Training Therapeutic Interventions: Therapeutic Modalities

(2 units)

Prerequisite(s): AT 581

Theoretical and practical application of therapeutic modalities as interventions related to tissue response to injury and pain control to address identified impairments, functional limitations and participation restrictions in athletic training clinical practice settings.

Letter Grade Only (A-F) Lecture 1 hour, Activity 2 hours Not applicable

AT 581 - Athletic Training Clinical Education I

(2 units)

Prerequisite(s): Admission to the MSAT program.

Corequisite(s): AT 500, AT 502

First of four athletic training clinical education experiences. Athletic training clinical practice exposure opportunities with varied client/patient populations in practice settings. Practice settings include clients/patients throughout the lifespan, different sexes, different socioeconomic statuses, varying levels of athletic activity, and non-sport patient populations. Supervised experience under the direction of a Preceptor(s) consisting of a minimum of three (3) clinical sites at 15-20 hours per week (Clinical education hour requirement: Minimum of 240 hours / Maximum of 320 hours). A campus clinical education meeting (2 hours) is held weekly.

Letter Grade Only (A-F) Not applicable

AT 582 - Athletic Training Clinical Education II

(2 units)

Prerequisite(s): AT 581

Second of four athletic training clinical education experiences. Curricular content standards are integrated to practical application of knowledge, development of clinical skills, clinical decision making ability, professional responsibility, and interprofessional education in a practice setting. Clinical education experience focuses on the spine and lower extremity comprehensive examination, plan of care, diagnostic tests, and therapeutic interventions utilizing critical judgment, problem solving, clinical reasoning, and evidence. Clinical education would also include exposure to and engagement in interprofessional practice with multiple healthcare providers. Supervised experience under the direction of a Preceptor(s) consisting of two (2) - eight (8) week sessions at 15-20 hours per week (Clinical education hour requirement: Minimum of 240 hours / Maximum of 320 hours). A campus clinical education meeting (2 hours) is held weekly.

Letter Grade Only (A-F) Not applicable

AT 583 - Athletic Training Clinical Education III

(2 units)

Prerequisite(s): AT 582

Third of four athletic training clinical education experiences. Curricular content standards are integrated to practical application of knowledge, development of clinical skills, clinical decision making ability, professional responsibility, and interprofessional education in a practice setting. Clinical education experience focuses on the thorax, head, brain, and upper extremity comprehensive examination, plan of care, diagnostic tests, and therapeutic interventions utilizing critical judgment, problem solving, clinical reasoning, and evidence. Clinical education would also include exposure to and engagement in interprofessional practice multiple healthcare providers. Supervised experience under the direction of a Preceptor(s) consisting of one (1) - sixteen (16) week session at 30 hours per week (Clinical education hour requirement: Minimum of 480 hours / Maximum of 500 hours). A campus clinical education meeting (2 hours) is held weekly.

Letter Grade Only (A-F) Not applicable

AT 584 - Athletic Training Clinical Education IV

(2 units)

Prerequisite(s): AT 583

Fourth of four athletic training clinical education experiences. Curricular content standards are integrated to practical application of knowledge, development of clinical skills, clinical decision making ability, and professional responsibility in a practice setting. Clinical education experience focuses on the evaluation, treatment/intervention, acute care, long term management, and return to participation for common systemic non-orthopedic pathologies, illnesses, and conditions in practice

settings utilizing critical judgment, problem solving, clinical reasoning, and evidence which focuses on comprehensive, authentic, real-time opportunities to practice, make decisions, and demonstrate professional behaviors required of the profession.

Supervised experience under the direction of a Preceptor(s) consisting of two (2) separate continuous eight (8) week sessions. Session I is an immersive clinical education experience which is a full-time practice-intensive experience that allows the totality of care experience provided by athletic trainers in day to day operations. (Clinical education hour requirement: Minimum of 320 hours). Session II is characterized at 30 hours per week (Clinical education hour requirement: Minimum of 240 hours / Maximum of 280 hours). A campus clinical education meeting (2 hours) is held weekly.

Letter Grade Only (A-F) Not applicable

AT 591 - Seminar in Athletic Training

(1 unit)

Prerequisite(s): AT 583

Corequisite(s): AT 584

A comprehensive review of athletic training content standards, core competencies, clinical skills, clinical decision making, professional responsibility, and interprofessional education related to the BOC certification process and transition as a professional.

Letter Grade Only (A-F) Not applicable

AT 699A - Applied Research Project in Athletic Training I

(2 units)

Prerequisite(s): Advancement to candidacy, KIN 696

Corequisite(s): AT 504

First of a series of three classes. Focuses on the development of a research problem, creating a implementation plan and obtaining IRB approval for an applied research project in athletic training investigating an aspect of clinical AT care.

Letter Grade Only (A-F) Not applicable

AT 699B - Applied Research Project in Athletic Training II

(2 units)

Prerequisite(s): [AT 699A](#)

Second of a series of three classes. Focuses on data collection and data analysis for applied research project in athletic training, according to the individual student's research plan. Additional instruction in data collection theory and statistical analysis of collected data. . A grade of "B" or better is required

for successful completion.

Letter Grade Only (A-F) Not applicable

AT 699C - Applied Research Project in Athletic Training III

(2 units)

Prerequisite(s): [AT 699B](#)

Third of a series of three classes. Focuses on scientific writing and presentation of the individual student's clinical AT research results in a professional manner. Includes production of a written project and oral presentation consistent with professional submissions.

Letter Grade Only (A-F) Not applicable

Kinesiology

AT 526 - Manual Therapeutic Interventions in Athletic Training

(2 units)

Prerequisites: AT 521, AT 525.

Manual therapy approaches for management of musculoskeletal pain, dysfunction and disability in athletic training settings.

Letter Grade Only (A-F) (Lecture 1 hour, Activity 2 hours)

AT 530 - Management and Professional Issues in Athletic Training

(3 units)

Prerequisite(s): AT 582

Contemporary concepts, principles and practices in the management and delivery of healthcare services in athletic training settings.

Letter Grade Only (A-F)