

KINESIOLOGY

College of Health and Human Services

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Career Possibilities

Allied Health Professions Programs: Certified Athletic Trainer • Educator/Professor • Researcher • Certified Kinesiotherapist

Exercise Science and Fitness: Strength and Conditioning Coach • Educator/Professor • Researcher • Exercise Technician • Fitness Specialist • Exercise Physiologist • Exercise Specialist

Physical Education Teacher Education (PETE): Physical Educator • Adapted Physical Education Specialist • Sport Coach • High School Athletic Administrator • Educator/Professor • Researcher

Sport Studies: Sport Coach • Educator/Professor • Researcher • Mental Training Consultant/Sport Psychologist • Sport Manager • College Athletic Administrator
(For more information, see www.careers.csulb.edu.) Various entry-level trainee positions are available for graduates, regardless of academic discipline.

Introduction

The mission of the Department of Kinesiology is to facilitate wellness among individuals through the study and application of human movement principles across the lifespan and through the management of and participation in physical activity, exercise, and sport. The Department serves the needs of students completing majors in other fields who find that certain aspects of kinesiology are important to professional objectives and personal interests.

Programs at a Glance

- Bachelor of Arts in Kinesiology in two options
- Bachelor of Science in Kinesiology in three options
- Bachelor of Science in Athletic Training
- Master of Arts in Kinesiology in five options
- Master of Science in Kinesiology in four options
- Single Subject Teaching Credential in Physical Education (K-12)
- Single Subject Teaching Authorization in Adapted Physical Education (K-12)
- Wilderness Studies Certificate

In addition to the degree requirements for the Bachelor of Arts in Kinesiology and the Bachelor of Science in Kinesiology, the Major must meet the following Department policies and requirements for University graduation:

1. Each major course and prerequisite course must be completed with a grade of "C" or better. A course in which a grade lower than a "C" is received must be retaken and successfully completed prior to enrolling in any other course for which it is a prerequisite;
2. Upper-division courses may not be waived by substitution or examination without Department petition and approval;
3. Department approval.

Undergraduate Programs

Bachelor of Arts in Kinesiology

This program has been discontinued.

Single Subject Teaching Credential in Physical Education (K-12)

In addition to meeting the subject matter competence requirement for the Teaching Credential, prospective Physical Education teachers are also required to complete 45 units of professional preparation in the Single Subject Credential Program, including student teaching. Students may begin the professional preparation courses as early as the junior year. With careful planning, it is possible to complete all of the credential program courses, except for student teaching, as an undergraduate. Courses may also be completed as a post-baccalaureate student. Refer to the Single Subject Teacher Education section of this catalog or the Single Subject Credential Program website (www.ced.csulb.edu/single-subject) for a description of the professional preparation requirements, courses, and application procedures.

Adapted Physical Education Specialist Teaching Authorization

This program is designed for students interested in the administration and implementation of physical activity programs for persons with disabilities in K-12 schools. Completion of this program results in the Adapted Physical Education added authorization for holders of a current Single Subject, Multiple Subject, or Education Specialist basic teaching credential.

Requirements

1. Bachelor's degree;
2. Concurrent enrollment in or completion of the Single Subject Physical Education teaching credential program or the Multiple Subject or Education Specialist teaching credential program;
3. Take the following courses:
 - KIN 320 Adapted Physical Education (3)
Prerequisites: BIOL 208.
 - KIN 387 Physical Activities for the Disabled (3)
Prerequisites: KIN 320.
 - KIN 388 Program Planning and Instruction in Adapted Physical Education (3)
Prerequisites: KIN 387.

KIN 427 Physical and Motor Assessment (3)
Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing; consent of instructor required for graduate students prior to registration.

KIN 489A Field Work in Physical Activity Settings (3)
Prerequisites: Completion of Kinesiology course requirements for the major option in which field work is taken.

EDSP 350 Education of Exceptional Individuals (3)
Prerequisites: None.

Select two courses from the following:

ED P 405; EDSP 577, EDSP 578; KIN 526; ASLD 101.

Bachelor of Science in Kinesiology

Students pursuing the Bachelor of Science degree in Kinesiology must complete the course requirements and the physical fitness proficiency of each Option. Students may select their area of specialization from the options.

Option in Exercise Science (120 units)

Admission Under Impaction

Refer to the following website for additional impaction criteria: http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Requirements

Core:

Take all of the following courses:

KIN 201 Introduction to Kinesiology (3)
Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201.

KIN 301 Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite: KIN 201

KIN 312 Motor Control and Learning (3)
Prerequisites: BIOL 207, BIOL 208 and PSY 100 with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201 applies to Kinesiology majors.

KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)
Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Lower Division:

Take all of the following courses:

MATH 113 (or higher) Precalculus Algebra (3)

* C or better
Prerequisites: Appropriate ELM score, ELM exemption or MAPB11.

CHEM 111A General Chemistry (5)

* C or better
Prerequisites: A passing score on the Chemistry Placement Examination.
Corequisite: MATH 109 or higher.

CHEM 111B General Chemistry (5)
Prerequisites: CHEM 111A and MATH 113 or MATH 115 or MATH 117 or MATH 119A or MATH 122 all with a grade of

"C" or better.

KIN 263 Techniques in Physical Fitness (2)
Prerequisites: None.

BIOL 207 Human Physiology (4)

* C or better
Prerequisites: GE Foundation requirements.

BIOL 208 Human Anatomy (4)

* C or better
Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

PHYS 100A General Physics (4)

* C or better
Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 120 or MATH 122.

PHYS 100B General Physics (4)
Prerequisites: PHYS 100A.

PSY 100 General Psychology (3)

* C or better
Prerequisites/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

Upper Division:

Take all of the following courses:

KIN 405 Cardiopulmonary Aspects of Health Related Exercise Programs (4)
Prerequisites: KIN 210 or current First Aid and CPR certificates, KIN 301.

KIN 441 Applied Biomechanics: Lifting and Work Capacity (3)
Prerequisites: KIN 300 or equivalent (Trigonometry and PHYS 100A recommended).

Take one of the following courses:

KIN 430 Motor Control Principles and Theory (3)
Prerequisites: KIN 312 or equivalent.

KIN 431 Scientific Foundations of Locomotion (3)
Prerequisites: KIN 300, KIN 312.

Take one of the following courses:

KIN 483 Statistics in Human Movement Science (3)
Prerequisites: KIN 300, KIN 301, KIN 312.

BIOL 260 Biostatistics (3)
Prerequisites: BIOL 201 or BIOL 207 or BIOL 211 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

Take three of the following courses:

KIN 339, KIN 462, KIN 465, KIN 466, KIN 432.

Take 12 units (minimum 3 units from KIN) of elective courses from the following:

BIOL 200, BIOL 201, BIOL 211, BIOL 212, BIOL 213 (BIOL 111 and BIOL 111L, BIOL 212 and BIOL 212L, BIOL 213 and BIOL 213L if courses taken prior to this catalog year), BIOL 301, BIOL 311, BIOL 340, BIOL 341, BIOL 342 and BIOL 342L, BIOL 345, BIOL 441, BIOL 443, BIOL 445; CHEM 227, CHEM 448; NUTR 132, NUTR 331, NUTR 439; H SC 150; KIN 315, KIN 320, KIN 339*, KIN 364, KIN 367, KIN 430*, KIN 431*, KIN 432*, KIN 462*, KIN 465*, KIN 466*, KIN 494, KIN 495, KIN 497; PSY 327, PSY 370.

A fieldwork, field experience, or internship requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training: Standard First Aid or equivalent) and

Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Fitness (120 units)

Admission Under Impaction

Fitness is an impacted option. Refer to the following website for additional impaction criteria: http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Requirements

Core Courses:

Take all of the following courses:

KIN 201 Introduction to Kinesiology (3)
Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201.

KIN 301 Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite: KIN 201

KIN 312 Motor Control and Learning (3)
Prerequisites: BIOL 207, BIOL 208 and PSY 100 with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201 applies to Kinesiology majors.

KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)
Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Lower Division:

Take one of the following courses:

STAT 108 Statistics for Everyday Life (3)

* C or better
Prerequisites: None

PSY 110 Introductory Statistics (4)

* C or better
Prerequisites: Eligible to take a General Education Mathematics course.

Take all of the following courses:

NUTR 132 Introductory Nutrition (3)

* C or better
Prerequisites/Corequisites: One Foundation course.

PSY 100 General Psychology (3)

* C or better
Prerequisites/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

KIN 218 Professional Development in the Fitness Industry (2)
Prerequisites: None.

KIN 263 Techniques of Physical Fitness (2)
Prerequisites: None.

BIOL 207 Human Physiology (4)

* C or better

Prerequisites: GE Foundation requirements.

BIOL 208 Human Anatomy (4)

* C or better

Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

Physical Activity Courses:

Take a minimum of 7 units selected from different classes chosen from the following:

KIN 100A, KIN 102A, KIN 104A, KIN 106A, KIN 107A, KIN 108A, KIN 109A, KIN 112A, KIN 114A, KIN 114B, KIN 114C, KIN 121A, KIN 124A, KIN 125A, KIN 126A, KIN 127A, KIN 142, KIN 145A, KIN 146A, KIN 148A, KIN 149A, KIN 151A, KIN 152A, KIN 161A, KIN 162A, KIN 165A, KIN 166, KIN 167A, KIN 168A, KIN 169A, KIN 172A, KIN 172B, KIN 172C, KIN 183A, KIN 185, KIN 189, KIN 198F, KIN 198G, KIN 198H, KIN 198J, KIN 242, KIN 243A, KIN 243C, KIN 244, KIN 245A, KIN 246A, KIN 247A, KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268.

Upper Division:

KIN 339 Psychology of Sport Behavior and Athletic Performance (3)

Prerequisites: GE Foundation requirements, PSY 100, and upper-division standing.

KIN 363 Theory and Analysis of Group Fitness Instruction (2)

Prerequisites: KIN 263.

KIN 364 Fitness for Adult Populations with Unique Health Considerations (3)

Prerequisites: KIN 301.

KIN 367 Fitness and the Aging Process (3)

Prerequisites: Fitness Option: KIN 218 and KIN 301; KIN Exercise Science Option: KIN 301; or consent of instructor.

KIN 368 Resistance Training for Fitness (3)

Prerequisite(s): Prerequisites: KIN 300 and KIN 301. Open to Fitness Option students in Kinesiology or consent of instructor.

KIN 467 Fundamentals of Personal Training (3)

Prerequisites: KIN 368. Open to Fitness Option students in Kinesiology only, or consent of instructor.

KIN 468 Nutrition for Exercise and Performance (3)

Prerequisites: NUTR 132, KIN 301.

KIN 469 Fitness Management (3)

Prerequisites: KIN 363, KIN 368.

KIN 478 Psychological Aspects of Exercise and Fitness (3)

Prerequisites: KIN 339. Open to Fitness and Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

KIN 489D Fieldwork in Fitness (3)

Prerequisites: Completion of Kinesiology course requirement for the major option in which the field work is taken. KIN 467, completion of 200 hours in a corporate fitness setting, 200 hours in a traditional fitness setting and 100 hours of approved fitness experience.

Take six units of elective courses from the following:

ATEP 207, ATEP 309; NUTR 439; HSC 421, HSC 423, HSC 427; KIN 315, KIN 335, KIN 462, KIN 487; REC 421, REC 423, REC 425, REC 427.

A fieldwork, field experience, or internship requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training: Standard First Aid or equivalent)

and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

Option in Sport Psychology and Leadership (120 units)

This option has two concentrations - one in Sport Psychology and one in Leadership. The course work for both concentrations is the same except for the activity courses and the elective courses. The option is designed for students interested in careers in: 1) sport psychology; and 2) coaching outside the public school system (K-12), e.g., sport management/leadership; coaching professional athletes, coaching youth-sport athletes, and coaching in sport academies.

Admission Under Impaction

Sport Psychology & Leadership is an impacted option. Refer to the following website for additional impaction criteria: http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Requirements

Core:

Take all of the following courses:

KIN 201 Introduction to Kinesiology (3)
Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201.

KIN 301 Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite: KIN 201

KIN 312 Motor Control and Learning (3)
Prerequisites: BIOL 207, BIOL 208 and PSY 100 with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201 applies to Kinesiology majors.

KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)
Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Lower Division:

Take all of the following courses:

BIOL 207 Human Physiology (4)

* C or better
Prerequisites: GE Foundation requirements.

BIOL 208 Human Anatomy (4)

* C or better
Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

NUTR 132 Introductory Nutrition (3)

* C or better
Prerequisites/Corequisites: One Foundation course.

KIN 263 Techniques of Physical Fitness (2)

Prerequisites: None.

PSY 100 General Psychology (3)

* C or better

Prerequisites/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

STAT 108 Statistics for Everyday Life (3)

* C or better

Prerequisites: None

Take three activity units selected from the following:

KIN 100A, KIN 102A, KIN 104A, KIN 106A, KIN 107A, KIN 108A, KIN 112A, KIN 114A, KIN 114B, KIN 114C, KIN 121A, KIN 124A, KIN 125A, KIN 126A, KIN 127A, KIN 142, KIN 145A, KIN 146A, KIN 148A, KIN 149A, KIN 151A, KIN 152A, KIN 161A, KIN 162A, KIN 165A, KIN 166, KIN 167A, KIN 169A, KIN 172A, KIN 172B, KIN 172C, KIN 183A, KIN 185, KIN 189, KIN 242, KIN 243A, KIN 243C, KIN 244, KIN 245A, KIN 246A, KIN 247A, KIN 250, KIN 253, KIN 255, KIN 257, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268.

Upper Division:

Take all of the following courses:

KIN 335 Historical and Cultural Foundations of Sport and Kinesiology in America (3)
Prerequisites: Upper division standing.

KIN 338 Women in Sport (3)
Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing.

KIN 339 Psychology of Sport Behavior and Athletic Performance (3)
Prerequisites: GE Foundation requirements, PSY 100, and upper-division standing.

KIN 472 Applied Sport and Exercise Psychology (3)
Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

KIN 475 Psychology of Coaching (3)
Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

KIN 478 Psychological Aspects of Exercise and Fitness (3)
Prerequisites: KIN 339. Open to Fitness and Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

PSY 356 Personality (3)
Prerequisites: PSY 100.

Concentration in Sport Psychology

Elective Courses:

Select 12 units (minimum 3 units from KIN and 6 units from PSY). At least 7 units must be upper division) from the following courses:
ANTH 353, ANTH 412, H SC 427; KIN 156, KIN 210, KIN 315, KIN 489B, KIN 497; PSY 220, PSY 241, PSY 301, PSY 332, PSY 333, PSY 336, PSY 351, PSY 370, PSY 373, PSY 378, PSY 453, PSY 475.

Concentration in Leadership

Elective Courses:

Select 12 units (Minimum 3 units from KIN. At least 7 units must be upper division) from the following courses:
ANTH 353, ANTH 412; CBA 400; COMM 306, COMM 335, COMM 411; H SC 427; KIN 156, KIN 200, KIN 210, KIN 489B, KIN 497; REC 321, REC 322, REC 324, REC 340I, REC 427; PSY 351, PSY 453.

A fieldwork, field experience, or internship requires current certification in First Aid (American Red Cross: Community First Aid & Safety or Emergency Response or Workplace Training: Standard First Aid or equivalent) and Cardiopulmonary Resuscitation (American Red Cross: Adult CPR or Adult, Infant & Child CPR or CPR for the Professional Rescuer; American Heart Association: Adult CPR or Adult, Infant & Child CPR or ACLS Provider or equivalent) prior to enrollment.

This degree option has been deemed "similar" to the Transfer Model Curriculum for Kinesiology under the Student Transfer Agreement Reform Act (SB 1440-Padilla). Students who complete an approved A.A.-T or A.S.-T degree in Kinesiology at a California Community College can meet B.S. in Kinesiology: Option in Sport Psychology and Leadership (KPE_BS04) requirements with no more than 60 additional units. Contact a Kinesiology faculty advisor for assistance in program planning.

Option in Physical Education-Teacher Education (120)

The Physical Education-Teacher Education (PETE) option places emphasis on teaching public school Physical Education (PE) to students with and without disabilities in preschool through grade 12 and includes concentrations in Adapted Physical Education (APE) and Physical Education K-12 (PE K-12). Prospective students should consult with the department's Single Subject Physical Education Advisor and/or Adapted Physical Education Advisor early to plan their program.

Requirements

Core

Take all of the following courses

KIN 201 Introduction to Kinesiology (3)
Prerequisite: None

KIN 300 Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only. Corequisite(s): KIN 201.

KIN 301 Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite: KIN 201

KIN 312 Motor control and Learning (3)
Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201 applies to Kinesiology majors.

KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)
Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Pedagogy Core Courses

Take all of the following courses:

BIOL 208 Human Anatomy or HHS 401 (4)
Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

BIOL 207 Human Physiology (4)
Prerequisites: GE Foundation requirements.

PSY 100 General Psychology (3)
Prerequisite/Corequisite: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100S, ASAM 100S, CHLS 104S, ENGL 100S or ALI 150 or equivalent.

KIN 149A Self-Defense (1)
Prerequisite: None

KIN 237 Techniques and Analysis of Aquatic Skills (2)
Prerequisites: American Red Cross Community First Aid and CPR certification or equivalent. Open to Kinesiology majors in the Adapted Physical Education and K-12 Physical Education teacher education option only. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

KIN 250 Techniques of Basketball (1)
Prerequisite: None

KIN 251 Techniques of Flag Football (1)
Prerequisite: None

KIN 253 Techniques of Soccer (1)
Prerequisite: None

KIN 255 Techniques of Softball (1)
Prerequisite: None

KIN 257 Techniques of Volleyball (1)
Prerequisite: None

KIN 261 Techniques and Analysis of Fundamental Rhythms (2)
Prerequisite: None

KIN 264 Techniques of Golf (1)
Prerequisite: None

KIN 265 Techniques of Gymnastics (1)
Prerequisite: None

KIN 266 Techniques of Badminton (1)
Prerequisite: None

KIN 267 Techniques of Tennis (1)
Prerequisite: None

KIN 268 Techniques of Track and Field (1)
Prerequisite: None

KIN 270 Professional Practices in Public School Physical Education (3)
Prerequisite: Students must meet the University GE writing course requirement.
Corequisite: Community CPR/First Aid/Safety or current certification.

KIN 315 Motor Development (3)
Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

KIN 320 Adapted Physical Education (3)
Prerequisites: BIOL 208.

KIN 343 Techniques and Analysis of Fitness (2)
Prerequisite: KIN 270.

KIN 370 Movement Theory and Practice of Elementary Physical Education (3)
Prerequisite: KIN 270.

KIN 380 Principles, Organization and Management of Secondary School Physical Education (3)
Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, KIN 343, KIN 370 or consent of instructor. Suggest concurrent enrollment in EDSS 300P (single subject credential course).

KIN 460 Applied Theory and Analysis of Non-Traditional Physical Education Games and Activities (2)
Prerequisites: KIN 370, senior standing.

Concentration Courses

Complete one of the following two concentration areas:

Concentration in Adapted Physical Education Concentration (9 units)

Take all of the following courses:

KIN 387 Physical Activities for the Disabled (3)
Prerequisites: KIN 320.

KIN 388 Program Planning and Instruction in Adapted Physical Education (3)
Prerequisite: KIN 387.

KIN 427 Physical and Motor Assessment (3)
Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing; consent of instructor required for graduate students prior to registration.

Concentration in k-12 Physical Education (9 units)

Take all of the following courses:

KIN 457 Applied Theory of Teaching Team Sports (3)
Prerequisites: KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 270 or consent of instructor; senior standing.

KIN 461 Applied Theory of Teaching Individual and Dual Sports (3)
Prerequisites: KIN 237, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, or consent of instructor; senior standing.

KIN 477 Measurement and Curriculum in Physical Education (3).
Prerequisite: KIN 343 and KIN 370 or consent of instructor.

Bachelor of Science in Athletic Training (120 units)

The Department of Kinesiology offers the Bachelor of Science in Athletic Training degree through the Athletic Training Program (AT Program). The AT Program is nationally accredited by the Commission on the Accreditation of Athletic Training Education (CAATE). Athletic Training is recognized by the American Medical Association (AMA) as a healthcare profession.

Athletic Training is practiced by Athletic Trainers (ATs), health care professionals who collaborate with physicians to optimize activity and participation of patients and clients. The services provided by ATs comprise prevention, emergency care, clinical diagnosis, therapeutic intervention and rehabilitation of injuries and medical conditions involving impairment, functional limitations, and disabilities. Students who want to become certified athletic trainers must earn a degree from an accredited athletic training curriculum. Accredited programs include formal instruction in areas such as injury/illness prevention, first aid and emergency care, assessment of injury/illness, human anatomy and physiology, therapeutic modalities, and nutrition.

For additional information please refer to the following website: <http://www.nata.org/athletic-training>.

The AT Program is designed for the athletic trainer's professional preparation based on the development of current knowledge, skills, and abilities in content areas such as evidence-based practice, prevention and health promotion, clinical examination and diagnosis, acute care of injury and illness, therapeutic interventions, psychosocial strategies and referral, healthcare administration, and professional development and responsibility. Classroom

learning is enhanced through clinical education experiences. Upon successful completion of all the AT Program requirements and Program Director approval, students are eligible to take the Board of Certification (BOC) examination to become a certified athletic trainer (ATC).

Professional careers in athletic training include professional sports, colleges & universities, secondary schools, hospital & clinical, /occupational health, military, performing arts, physician extender, and public safety.

Admission Under Impaction

The Bachelor of Science in Athletic Training is a highly impacted major and requires a program application in addition to the CSULB admission application. Admission to CSULB does not guarantee admission into the Athletic Training major.

Refer to the following website for additional impaction criteria: http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html.

Athletic Training Education Program Website

Refer to the following website for the most current AT Program information, program application packet, and additional resources: <http://www.csulb.edu/colleges/chhs/departments/kin/athletic-training/index.html>

Requirements

Core:

Take all of the following courses:

KIN 201 Introduction to Kinesiology (3)
Prerequisites: None

KIN 300 Biomechanics of Human Movement (3)
Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only. Corequisite(s): KIN 201.

KIN 301 Exercise Physiology (3)
Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite: KIN 201

KIN 312 Motor Control and Learning (3)
Prerequisites: BIOL 207, BIOL 208 and PSY 100 with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.
Corequisite(s): KIN 201 applies to Kinesiology majors.

KIN 332 Sociocultural Dimensions of Sport/Human Movement (3)
Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Lower Division:

Take one of the following courses:

MATH 109 Modeling with Algebra (3)
* C or better
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 7 or 11.

MATH 113 Precalculus Algebra (3)
* C or better
Prerequisite: Appropriate ELM score, ELM exemption, or MAPB 11.

MATH 119A Survey of Calculus I (3)
* C or better
Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 113.

MATH 122 Calculus I (4)
* C or better

Prerequisite: Appropriate MDPT placement or a grade of "C" or better in MATH 111 and 113.

Take all of the following courses:

ATEP 207 Prevention and Care of Athletic Injuries (3)

**C" or better required.

Prerequisites: Current certification in CPR, AED, and First Aid. Certification must include Adult, Child, and Infant CPR; Conscious and Unconscious Choking for victims of all ages; Automated External Defibrillator (AED), and Basic First Aid. Corequisite: KIN 201

KIN 263 Techniques in Physical Fitness (2)

Prerequisites: None.

BIOL 207 Human Physiology (4)

**C" or better required.

Prerequisites: GE Foundation requirements.

BIOL 208 Human Anatomy (4)

* C or better

Prerequisites: Grade of "C" or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, DANC 261, or MICR 200.

NUTR 132 Introductory Nutrition (3)

* C or better

Prerequisites/Corequisites: One Foundation course.

PHYS 100A General Physics (4)

* C or better

Prerequisites: MATH 109 or MATH 113 or MATH 119A or MATH 122.

PSY 100 General Psychology (3)

* C or better

Prerequisites/Corequisites: Students who score 147 or above on the English Placement Test or "C" or better in one of the following AFRS 100, ASAM 100, CHLS 104, ENGL 100S or ALI 150 or ALP 150 or equivalent.

Take one of the following courses:

BIOL 260 Biostatistics (3)

Prerequisites: BIOL 201 or BIOL 207 or BIOL 211 or MICR 200; MATH 111 or MATH 113 or MATH 119A or MATH 122 all with a grade of "C" or better.

KIN 483 Statistics in Human Movement Science (3)

Prerequisites: KIN 300, KIN 301, KIN 312.

PSY 110 Introductory Statistics (4)

Prerequisites: Eligible to take a General Education Mathematics course.

STAT 108 Statistics for Everyday Life (3)

Prerequisites: Appropriate ELM score, ELM exemption, or MAPB 7 or MAPB 11 or MAPB 12. Upper Division.

Take all of the following courses:

ATEP 304 Clinical Aspects of Athletic Training (3)

Prerequisites: Admission to the Athletic Training program and consent of instructor.

ATEP 306 Medical Aspects of Athletic Training (3)

Prerequisites: ATEP 490B.

ATEP 308A Athletic Training Evaluation I (3)

Prerequisite(s): ATEP 304.

ATEP 308B Athletic Training Evaluation II (3)

Prerequisites: ATEP 308A.

ATEP 309 Developmental and Therapeutic Exercise (3)

Prerequisites: KIN 300, KIN 301 or consent of instructor.

ATEP 310 Therapeutic Approaches in Athletic Training (3)

Prerequisite(s): ATEP 304.

ATEP 407 Management Strategies in Athletic Training (3)

Prerequisite(s): ATEP 490B.

ATEP 490A Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 304; satisfactory completion of CSULB Athletic Training Program Health and Safety requirements; and satisfactory completion of CSULB Athletic Training Program Technical Standards Form.

ATEP 490B Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490A.

ATEP 490C Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490B.

ATEP 490D Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490C.

ATEP 491 Seminar in Athletic Training (1)

Prerequisite: Consent of instructor and successful completion of ATEP 490C.

Corequisite: ATEP 490D

H SC 427 Drugs and Health (3)

Prerequisites: Upper division standing.

KIN 315 Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

KIN 339 Psychology of Sport Behavior and Athletic Performance (3)

Prerequisites: GE Foundation requirements, PSY 100 and upper division standing.

KIN 462 Advanced Strength and Conditioning (3)

Prerequisites: KIN 300, KIN 301. Open to Athletic Training, Exercise Science and Fitness majors in Kinesiology or consent of instructor.

Certificate Programs

The Department of Kinesiology offers one certificate program. The certificate program are open to students enrolled in the University who meet general admission requirements as follows:

1. Completion of 30 hours of course work;
2. A minimum 2.75 GPA in all completed course work;
3. Admission application and approval by a faculty committee in the certificate program selected.

Certificate in Wilderness Studies

Program is under consideration for discontinuance.

Students may only pursue the certificate program in combination with a CSULB degree program.

Requirements

1. Wilderness First Responder (WFR) Certification (80 hours)
2. Resume of Outdoor Experiences
3. Coursework (27-29 units):

Take all of the following:

KIN 242 Backpacking (2)

Prerequisites: None.

KIN 244 Kayaking (2)

Prerequisites: None.

KIN 246A Mountaineering (2)

Prerequisites: None.

KIN 247A Techniques of Rockclimbing (2)

Prerequisites: None.

KIN 489K Field Work in Physical Activity Settings -

Fieldwork in Wilderness Studies (3)

Prerequisite: Completion of Kinesiology course requirements

for the major Option in which field work is taken.

Additional Prerequisites: KIN 242, KIN 244, KIN 246A or KIN 247A, KIN 243C or KIN 245A. Certification in CPR and First Aid, and consent of instructor.

REC 427 Legal Aspects of Leisure Services (3)
Prerequisites: Upper division standing.

Select one of the following:

KIN 243C, KIN 245A and KIN 245B

Select three of the following:

KIN 243A and KIN 243B, KIN 243C*, KIN 245A and KIN 245B; REC 430.
*if not taken above

Graduate Programs

Two degree programs are available to the student: Master of Arts degree in Kinesiology with five Options and Master of Science degree in Kinesiology with four Options. Students may select the thesis/project track, the comprehensive examination track, or the capstone course track. The minimum unit requirement for the all MA or MS degree programs in Kinesiology is 36 units.

Admission Criteria

1. A bachelor's degree from an accredited institution with a major in Kinesiology/Physical Education or the equivalent;
2. If a prospective graduate student has a baccalaureate degree in a field other than Kinesiology or Physical Education, he/she may be required to take prerequisite or foundational upper-division undergraduate coursework in Kinesiology. Students must consult with the Associate Chair for Graduate Studies and/or major advisor before enrolling in foundational courses. The courses, which vary depending on the student's academic background and Option, may be taken at CSULB or another college/university. All foundational coursework must be completed prior to Advancement to Candidacy.
3. An overall undergraduate GPA of 2.5 or better and an upper division Kinesiology/Physical Education major GPA of 2.75 or better;
4. A minimum cumulative score of 150 on the verbal, 141 on the quantitative and 3.5 on the analytical writing sections of the Graduate Record Examination.

Advancement to Candidacy

1. Completion of the general University requirements for advancement to candidacy;
2. Fulfillment of the Graduation Writing Assessment Requirement (GWAR);
3. A graduate program must have approval of the student's advisor, Department Associate Chair for Graduate Studies, and Associate Dean of Graduate Students, Research, and Faculty Affairs for the College of Health and Human Services.

Master of Arts in Kinesiology

Five options are under the Master of Arts degree in Kinesiology. The core courses for thesis students are KIN 696 and 698. The core course for comprehensive examination students is KIN 696.

Option in Adapted Physical Education

This option is designed to provide advanced preparation in adapted physical activity and the study of individuals with disabilities across the lifespan (preschool to adult).

Requirements

1. Take the following course:
KIN 696 Research Methods and Statistical Analysis (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.
2. Minimum of 12 units, take the following:
EDSP 577, EDSP 578; KIN 537, KIN 638, KIN 697
3. Select option A or B (21 units):
 - A. Pass written and oral portions of Comprehensive Exam and complete 21 units of approved electives.
 - B. Thesis/Project: Complete KIN 698 (6 units) plus 15 units of approved electives.
4. Complete at least seventy percent (70%) of the minimum units required for the program of study in courses at the 500/600 level, including double-numbered courses.

Option in Coaching and Student-Athlete Development

1. Required Courses (18 units):
 - KIN 512 Legal and Ethical Issues in Sport (3)
Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sport Management Program; or consent of instructor.
 - KIN 572 Applied Sport Psychology (3)
Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.
 - KIN 575 Psychology of Coaching (3)
Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.
 - KIN 577 Sport in U.S. Culture (3)
Prerequisites: KIN 332 or equivalent.
 - KIN 593A Coaching Internship (3)
Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; advancement to candidacy and approval of Intern Coordinator.
 - KIN 696 Research Methods and Statistical Analysis (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.
2. Electives (12 units)
Select four from the following list of elective courses:
KIN 529, KIN 541, KIN 573, KIN 630, KIN 597 or KIN 697, KIN 560, KIN 573, KIN 593B, KIN 633; PSY 553, PSY 678
3. Select either A or B (6 units):
 - A. Thesis/Project: KIN 698 Thesis/Project (6 units)
 - B. Pass written and oral portions of Comprehensive Exam and complete six (6) units chosen from Elective Courses listed above.

Option in Pedagogical Studies

This option is currently inactive.

This option is offered only through College of Continuing and Professional Education at a higher tuition rate. Instruction is presented in an accelerated cohort program format over 24 months.

Requirements

1. Required courses (21 units)

KIN 522 Non-traditional Activities in K-12 Physical Education (3)

Prerequisite: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies.

KIN 524 Analysis of Teaching in Physical Education (3)

Prerequisites: None.

KIN 525 Instructional Design in Physical Education (3)

Prerequisites: Undergraduate major in physical education, EDST 300.

KIN 528 Promoting Physical Activity and Fitness in K-12 Physical Education (3)

Prerequisite: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies.

KIN 529 Positive Youth Development and Physical Activity (3)

Prerequisite: Graduate standing; admission to the Masters program in Kinesiology

KIN 580 Computer Application in Physical Education (3)

Prerequisites: Graduate standing, consent from instructor. Introduction to computer hardware and software used in Kinesiology including DOS/Windows and Apple Macintosh operating systems.

KIN 696 Research Methods and Statistical Analysis (3)

Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

* KIN 526 Applied Behavior Analysis in Physical Education (3) and 537 Physical Education for Special Populations (3) may be substituted, with instructor permission, for any of the above courses except KIN 524, 525 or 696.

2. Elective courses (12 units)

Select three of the following 3-unit courses plus an additional three unit course at the 500 or 600 level:

EDSE 435, EDSE 436, EDSE 457, EESS 450P, or EESS 473P.

3. Select option A or B:

A. Pass written and oral portions of Comprehensive Exam.

B. Thesis/Project (6 units): Complete 6, rather than 12 elective units in Section 2.

4. Complete at least seventy percent (70%) of the minimum units required for the program of study in courses at the 500/600 level, including double-numbered courses.

Option in Sport Management

This option is offered only through College of Continuing and Professional Studies at a higher tuition rate. Instruction is presented in an accelerated cohort program format over 18 months.

Requirements

1. Take all the following courses:

KIN 511A Sports Marketing, Development and Fund Raising (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

KIN 511B Sports Marketing, Development and Fund Raising (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management, & KIN 511A.

KIN 512 Legal and Ethical Issues in Sport (3)

Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sport Management Program; or consent of instructor.

KIN 513 Personnel and Facility Management in Athletics (3)

Prerequisites: Graduate standing; admission into the Graduate

Program in Sport Management.

KIN 514 Sport Finance (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

KIN 521 Foundations of Sport Management (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

KIN 591 Field Studies in Sport Event Management (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

KIN 592A Sports Management Internship (6)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management

KIN 694 Capstone in Kinesiology (3)

Prerequisite: KIN 696 and admission into a Kinesiology graduate program.

KIN 695 Seminar in Professional Literature (3)

Prerequisite: Graduate standing; admission into the Graduate Program in Sport Management.

KIN 696 Research Methods and Statistical Analysis (3)

Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

2. Pass written and oral portions of Comprehensive Exam.

Option in Individualized Studies

This option is designed to provide the student with curriculum activities that combine one or more option areas into a program of study. This option is developed by the student with the advisement of a graduate faculty member and/or the Associate Chair for Graduate Studies. A statement of rationale for the proposal must accompany the program of study.

Requirements

1. Required Course (3 units)

KIN 696 Research Methods & Statistical Analysis (3);

2. Select A or B (33 units):

A. Thesis/Project: KIN 698 Thesis/Project (6 units) and complete 27 advisor approved Elective units focused on a specific theme of study.

B. Pass written and oral portions of Comprehensive Exam and complete 33 advisor-approved Elective units focused on a specific theme of study.

3. Complete at least seventy percent (70%) of the minimum units required for the program of study in courses at the 500 and 600 levels, including double-numbered courses (400/500). At least fifty percent (50%) of the units required for the degree shall be in courses organized primarily for graduate students.

Master of Science in Kinesiology

Four options are under the Master of Science degree in Kinesiology. The core courses for thesis/project students are KIN 696 and KIN 698. The core course for comprehensive examination students is KIN 696.

Option in Exercise Science

Requirements

1. Required Coursework (12 units):

KIN 530 Neuromotor Control (3)

Prerequisites: Graduate standing, KIN 312 or equivalent.

- KIN 541 Applied Biomechanics (3)
Prerequisites: KIN 300 or equivalent.
- KIN 551 Advanced Exercise Physiology (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent.
- KIN 696 Research Methods and Statistical Analysis (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

2. Elective Courses (18 units):

Select six of the following courses:

- KIN 540 KIN 552, KIN 553, KIN 562, KIN 565, KIN 566, KIN 568, KIN 594, KIN 630, or KIN 697

3. Select option A, B, or C (6 units):

- A. Pass written and oral portions of Comprehensive Exam and complete 6 units of electives from within or outside of the department offerings selected from appropriate areas of interest in consultation with advisor.
- B. Thesis/Project: Complete KIN 698 (6 units)

Option in Sport and Exercise Psychology

Requirements

1. Core (18 units):

- KIN 512 Legal and Ethical Issues in Sport (3)
Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sport Management Program; or consent of instructor.
- KIN 572 Applied Sport Psychology (3)
Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.
- KIN 577 Sport in U.S. Culture (3)
Prerequisites: KIN 332 or equivalent.
- KIN 578 Psychological Aspects of Exercise and Fitness (3)
Prerequisites: KIN 339. Open to Fitness and Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.
- KIN 633 Seminar in Sport Psychology (3)
Prerequisites: KIN 339 or consent of instructor.
- KIN 696 Research Methods and Statistical Analysis (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

2. Elective Courses (12 units):

Select four of the following courses:

- KIN 529, KIN 573, KIN 575, KIN 630, KIN 697, PSY 553, PSY 575, PSY 678.

3. Select either option A or B (6 units):

- A. Thesis/Project: KIN 698 Thesis/Project (6 units)
- B. Pass written and oral portions of Comprehensive Exam and complete six (6) units chosen from Elective Courses.

Option in Sports Medicine and Injury Studies

Requirements

1. Required courses (24 units):

- KIN 541 Biomechanical Factors in Human Movement (3)
Prerequisites: KIN 300 or equivalent.
- KIN 551 Advanced Exercise Physiology (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent.
- KIN 560 Health Related Problems in Sport (3)
Prerequisites: KIN 207 and KIN 301 or their equivalents and BIOL 207 and 208 or their equivalents.

- KIN 561 Musculoskeletal Injuries in Sport (3)
Prerequisites: KIN 207 and KIN 300 or their equivalents and BIOL 208 or its equivalents.

- KIN 562 Advanced Strength and Conditioning (3)
Prerequisites: KIN 300, KIN 301.

- KIN 568 Nutrition for Exercise and Performance (3)
Prerequisites: NUTR 132, KIN 301 for the KIN Fitness option and the KIN Exercise Science option or BIOL 207 for the Nutrition and Dietetics option.

- KIN 633 Seminar in Sport Psychology (3)
Prerequisites: KIN 339 or consent of instructor.

- KIN 696 Research Methods and Statistical Analysis (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

2. Select option A or B (12 units):

- A. Thesis/Project: KIN 698 Thesis/Project (6 units) plus six (6) units chosen from the following elective courses: KIN 540, KIN 552, KIN 553, KIN 565, KIN 566, KIN 573, KIN 577, or KIN 671.

- B. Comprehensive Examination: Passing score in written and oral portions of Comprehensive Examination plus KIN 697 Directed Studies (3) and nine (9) units chosen from Elective Courses: KIN 540, KIN 552, KIN 553, KIN 565, KIN 566, KIN 573, KIN 577, or KIN 671.

Option in Exercise Physiology and Nutrition

Requirements

1. Required Coursework (12 units):

- KIN 551 Advanced Exercise Physiology (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent.
- KIN 552 Exercise Testing and Training in Health and Disease (3)
Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent.
- KIN 566 Biochemical and Hormonal Adaptations to Physical Activity (3)
Prerequisites: Upper-division undergraduate or Graduate standing; KIN 301 or equivalent; CHEM 111A or its equivalent. Consent of instructor required for upper-division undergraduate students prior to registration.

- KIN 696 Research Methods and Statistical Analysis (3) or FCS 696 Research Methods (3)
Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

2. Elective courses (9 units)

Select three courses from the following list of courses: KIN 553, KIN 562, KIN 565, KIN 568, or KIN 594.

3. Elective courses (9 units)

Select three courses from the following list of courses: KIN 568, FCS 530A, FCS 530B, FCS 531

4. Select either option A or B (6 units):

- A. Thesis and Project Candidates: KIN 698 Thesis (6)
- B. Pass written and oral portions of Comprehensive Exam and complete a minimum of 6 additional elective units approved by option advisor.

Single Subject Teaching Credential in Physical Education

For information, refer to the undergraduate section in this department.

Kinesiology Courses (KIN)

ACTIVITY COURSES

100-198. Physical Education Activity (1)

Broad range of physical education activities designed to provide opportunities to meet health, physical and recreational needs and interests.

Maximum of 8 units may be applied toward University graduation requirement. Students assume responsibility for satisfactory health status appropriate for class activity. May be offered at beginning (I), intermediate (II), and advanced (III) levels. All classes are co-educational, students may enroll in activity courses offered by Department of Kinesiology. Classes offered within areas are:

Individual/Dual Activities (1)

100A. Archery. Course fee may be required.

102A. Badminton

104A. Bowling. Course fee may be required.

108A. Golf

112A. Racquetball

114A,B,C. Tennis

145A. Gymnastics

152A. Yoga

Combative Activities (1)

106A. Fencing-Foil

107A. Fencing-Sabre

148A. Karate

149A. Self Defense

Aquatics (1)

121A. Sailing. Course fee may be required.

124A. Surfing

125A. Swimming

126A. Swimming Conditioning

127A. Aqua Aerobics (1)

Fitness Activities (1)

109A. Fitness Walking (1)

142. Group Exercise: Cardio

146A. Jogging

151A. Weight Training and Conditioning

Team Activities

161A. Basketball

162A. Beach Volleyball

165A. Flag Football

166. Rugby

167A. Soccer

168A. Ultimate Frisbee (1)

169A. Softball

172A,B,C. Volleyball

Recreational Dance

183A. Recreational Dance Workshop

188. Salsa

185. Social Dance

198. Special Activities

F. Group Exercise: Dance Conditioning (1-3)

G. Tai Chi Chuan (1)

H. Chinese Sword Combat for Sport (1)

J. Mat Pilates Level I (1)

K. Kung Fu (1)

L. Group Exercise: Stretch and Relaxation (1)

M. Pickleball (1)

* See Physical Education professional courses for additional activities open to non-majors.

PROFESSIONAL COURSES

Kinesiology majors and minors will be given priority enrollment in classes required for the major. Selected courses are available to the general student body to receive credit toward general education requirements.

LOWER DIVISION

143. Individual Conditioning (1)

Designed to introduce the student to the activities, equipment, and techniques used in the development of conditioning programs tailored to one's individual needs.

May be repeated to a maximum of 8 units.

156. Sports Appreciation (3)

Prerequisite/Corequisite: GE Foundation requirement.

Introduction to the study of sport as a social institution in American society.

157. Fitness for Living (3)

Prerequisite/Corequisite: GE Foundation requirement.

Application of principles of human anatomy, physiology, motor control and bio-mechanics to the development of exercise programs for health and fitness.

(Lecture 2 hours, Activity 2 hours.)

189. Country Dancing (1)

Instruction and practice in various country dance forms including line dancing, two-step, waltz, contra dancing, round dancing, and mixers. Useful for lifelong fitness, socialization, and recreation.

May be repeated to a maximum of 8 units.

200. Psychological Skills for Peak Performance in Sport (3)

Introduction of psychological strategies and skills designed to help individuals achieve optimal performance. Skills such as imagery, goal setting, self-talk, attentional focusing, arousal regulation, and coping are presented.

(Lecture, 3 hours)

201. Introduction to Kinesiology (3)

Prerequisites: None.

Survey of the discipline of kinesiology. Analysis of the knowledge base of the discipline and careers in physical activity professions. Focus is on the integrative nature of the discipline. Open to Kinesiology majors and pre-majors only. Letter grade only (A-F).

210. Advanced Emergency Care (3)

Theory and practice of first aid for the injured. Successful completion of course requirements leads to the American National Red Cross advanced first aid and personal safety and community CPR certificate.

Course fee may be required.

218. Professional Development in the Fitness Industry (2)

Prerequisites: Open to Fitness Option students in Kinesiology only or by consent of instructor.

An introduction to the Fitness profession which will provide the student with information regarding the history of the fitness industry, its educational expectations, standards and scope of practice basic skills needed to enter the field, and career options.

Letter grade only (A-F).

237. Techniques and Analysis of Aquatic Skills (2)

Prerequisites: American Red Cross Community First Aid and CPR certification or equivalent. Open to Kinesiology majors in the Adapted Physical Education and K-12 Physical Education teacher education option only. To maintain enrollment, students must pass the swimming proficiency examination that will be administered the first week of instruction.

Instruction and techniques in individual aquatic skills, hydrodynamic and movement principles, and an exposure to a variety of learning procedures applicable to the development of aquatic skills.

Letter grade only (A-F). (Lecture 1 hour, Laboratory 3 hours.)

242. Backpacking (2)

An experiential examination and analysis in the judgment, knowledge, equipment and skills necessary to safe wilderness travel and living. A 2-3 day field experience required.

Course fee may be required.

243A. Winter Mountain Expedition (2)

Introduction to winter mountaineering skills; study of the mountain environment. Field experience required.

Course fee may be required (Activity 4 hours)

243B. Winter Mountain Expedition Field (1)

Prerequisite: KIN 243A.

Application of the knowledge and skills required for winter mountaineering. Involves a 7-10 day field trip.

Course fee may be required. (2 hours activity)

243C. Desert Expedition (3)

Introduction to the skills, attitudes and knowledge required for safe use and enjoyment of desert areas. An interdisciplinary introduction to the meaning and significance of the desert. Trip planning, map use, methods of safe travel. Includes field trip.

Course fee may be required. (Activity 6 hours.)

244. Kayaking (2)

An experiential examination and analysis of the judgment, knowledge, equipment and skill development necessary to safe flat and whitewater kayaking. A 2-3 day field experience required.

Course fee may be required. (Activity 4 hours.)

245A. Wilderness Water Expedition (2)

Introduction to the skills, attitudes and knowledge required for safe use of varied types of wilderness waters. The skills and techniques of boat handling and trip planning. An interdisciplinary introduction to the study of waterways. A 2-3 day field experience required.

Course fee may be required. (Activity 4 hours)

245B. Wilderness Water Expedition Field (1)

Prerequisite: KIN 245A.

Application of the knowledge and skills required for different types of wilderness water expeditions. Involves a 10-14 day field trip. (2 hours of activity)

246A. Mountaineering (2)

An experiential examination and analysis in the judgement, knowledge, equipment and skills necessary to safe mountaineering. Course includes field trip.

Letter grade only (A-F). (Activity 4 hours) Course fee may be required.

247A. Techniques of Rockclimbing (2)

Introduction to the basic skills, judgment and safety for technical rockclimbing. The skills and techniques of top roping, belaying rappels and self rescue. Includes a field trip.

Course fee may be required. (Activity 4 hours)

250. Techniques of Basketball (1)

Instruction in individual and team skills and techniques utilized in the sport of basketball for successful performance.

Open to Kinesiology majors and minors only. (Activity 2 hours.)

251. Techniques of Flag Football (1)

Open to Kinesiology majors and minors only.

Instruction and practice in catching, throwing, tackling, running. Comprehensive teaching of skills and techniques in Flag Football. Letter grade only (A-F).

253. Techniques of Soccer (1)

Instruction in individual and team skills and techniques utilized in the sport of soccer for successful performance.

Open to Kinesiology majors and minors only. (Activity 2 hours.)

255. Techniques of Softball (1)

Instruction and practice in catching, throwing, hitting, sliding, base running, and bunting. Comprehensive teaching of skills and techniques in softball.

Open to Kinesiology majors and minors only. (Activity 2 hours)

257. Techniques of Volleyball (1)

Instruction in individual and team techniques utilized in the sport of volleyball.

Open to Kinesiology majors and minors only. (Activity 2 hours)

261. Techniques and Analysis of Fundamental Rhythms (2)

Instruction, practice, teaching, and analysis of floor patterns and rhythm variations of basic social and folk dances and their appropriateness for successful teaching of various age groups and skill levels in the public schools.

Letter grade only (A-F). (Activity 4 hours) Open to Kinesiology Pedagogy Majors only.

263. Techniques of Physical Fitness (2)

Consists of instruction, practice, and evaluation in physical fitness. Cardiorespiratory, muscular strength and endurance, and flexibility activities will be emphasized within the course.

Open to Kinesiology majors only or consent of instructor. Not open for credit to Kinesiology majors in the pedagogy options. Letter grade only (A-F). (Discussion 1 hour, Laboratory 3 hours)

264. Techniques of Golf (1)

Instruction and techniques in individual skills and strategies for successful performance in golf.

Open to Kinesiology majors and minors only. (Activity 2 hours)

265. Techniques of Gymnastics (1)

Open to Kinesiology majors and minors only.

Techniques and instruction of the principles of movement in gymnastics as well as organizational strategies utilized in presenting gymnastics in Physical Education classes.

Letter grade only (A-F).

266. Techniques of Badminton (1)

Instruction and techniques in the skills and strategies for successful performance in badminton.

Open to Kinesiology majors and minors only. (Activity 2 hours)

267. Techniques of Tennis (1)

Instruction, techniques and analysis in the concepts of teaching, coaching, and playing tennis.

Open to Kinesiology majors and minors only. (Activity 2 hours)

268. Techniques of Track and Field (1)

Instruction, techniques and analysis in the concepts of teaching, coaching, and performance in track and field.

Open to Kinesiology majors and minors only. Letter grade only (A-F) (Activity 2 hours)

270. Professional Practices in Public School Physical Education (3)

Prerequisite: Students must meet the University GE writing course requirement.

Corequisite: Community CPR/First Aid/Safety or current certification.

Provides an overview of current professional practices in public school physical education. Students plan, teach, and self-evaluate lessons. Required introductory course for Adapted, Elementary and Secondary Pedagogy options after 30 units of college course work.

Open to Kinesiology majors in the Adapted PE Option and K-12 PE Option. Letter grade only (A-F). (Lecture 2 hours, Lab 2 hours)

UPPER DIVISION

300. Biomechanics of Human Movement (3)

Prerequisites: BIOL 208 or equivalent 4-unit Human Anatomy course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only. Corequisite(s): KIN 201.

Anatomical structure and function, and mechanical principles relating to human motion, including analytical application.

Grading: Letter grade only (A-F). (Lecture 2 hours, laboratory 3 hours)

301. Exercise Physiology (3)

Prerequisites: BIOL 207 or equivalent 4-unit Human Physiology course with 3-hour lecture and 3-hour laboratory with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.

Corequisite: KIN 201

Basic concepts of the physiology of muscular exercise with emphasis on the responses and adaptations of the circulatory system, the respiratory system, and skeletal muscles to the physical stress of acute and chronic exercise.

Letter grade only (A-F). (Lecture 2 hours, Laboratory 3 hours). Course fee may be required.

302. Structural Kinesiology (3)

Prerequisites: BIOL 208 or equivalent.

Focuses specifically on the nervous and musculoskeletal systems with an emphasis on control, structure, evaluation of, and injury to the musculoskeletal system. Students will examine clinical and pathological examples to understand how change in structure yields change in function.

Letter grade only (A-F).

(Lecture 2 hrs., laboratory 3 hrs.)

312. Motor Control and Learning (3)

Prerequisites: BIOL 207, BIOL 208 and PSY 100 with grade of "C" or better or consent of instructor. Open to Kinesiology and Dance Science majors only.

Corequisite(s): KIN 201 applies to Kinesiology majors.

Letter grade only (A-F).

Basic concepts of the neuro-motor and psychological contributions in the control and acquisition of skilled performance.

Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

315. Motor Development (3)

Prerequisites: BIOL 207, BIOL 208; PSY 100 or equivalent.

Developmental perspective of factors contributing to acquisition of motor control from infancy through adolescence.

(Lecture 2 hours, Activity 2 hours)

320. Adapted Physical Education (3)

Prerequisites: BIOL 208.

Kinesiology majors learn to teach physical activity to persons with disabilities. Discussed are the etiology characteristics and best

teaching practices (i.e., inclusion) for persons with mental, learning physical, emotional, sensory, health, and/or multiple disabilities.

(Lecture 2 hours, Activity 2 hours).

332. Sociocultural Dimensions of Sport and Human Movement (3)

Prerequisite(s)/Corequisite(s): KIN 201; for KIN students only.

Designed to foster students' writing abilities specific to the discipline of kinesiology through sociology of sport and physical activity content. An interdisciplinary approach used to identify the factors that define and influence human movement.

Letter grade only (A-F).

335. Historical and Cultural Foundations of Sport and Kinesiology in America (3)

Prerequisites: Upper division standing.

Survey of the history of sport and kinesiology. Historical identification of the cultural trends and functions of sport and kinesiology in America.

Open to Kinesiology Majors only.

338. Women in Sport (3)

Prerequisites: GE Foundation requirements, one or more Exploration courses, and upper-division standing.

Survey of women's historical and contemporary involvement with sport. The social, cultural and developmental implications of sports participation for women.

339. Psychology of Sport Behavior and Athletic Performance (3)

Prerequisites: GE Foundation requirements, PSY 100, and upper-division standing.

Psychological dimensions of attitudes, behaviors, and performance in sport and exercise environments.

Same course as PSY 339. Not open for credit to students with credit in PSY 339.

343. Techniques and Analysis of Physical Fitness and Activity (2)

Prerequisite: KIN 270.

Knowledge needed to plan and implement physical activity programs in public school. Analysis of development, maintenance, implementation, and self-assessment of physical fitness. Designed to prepare for FITNESSGRAM assessments and Department's Physical Fitness Proficiency Examination.

Open to Kinesiology/Physical Education Pedagogy Majors and Minors only. Letter grade only (A-F). (Lecture 1 hour, Activity 3 hours).

354. Technology in Physical Education (3)

Overview of education technology applications, specifically wordprocessing, spreadsheet, video technology, web-based information, internet related software and technologies, pdf documents, personal digital assistants (PDAs) and use of commercially produced education software.

Meets computer technology requirement for California Single Subject Teaching Credential. Letter grade only (A-F). (Lecture 2 hours, laboratory 2 hours).

363. Theory and Analysis of Group Fitness Instruction (2)

Prerequisite: KIN 263. Open to Fitness Option students in Kinesiology only, or consent of instructor.

Learn to become effective group exercise leaders by understanding responsibilities of fitness leaders, principles of fitness, and leadership skill. Techniques for various group exercise activities will be taught.

Letter grade only (A-F). (Discussion 1 hour, Activity 2 hours)

364. Fitness for Adult Populations with Unique Health Considerations (3)

Prerequisites: KIN 301. Open to Fitness Option students in Kinesiology only, or consent of instructor.

Scientific information regarding exercise testing and exercise prescription for adult special populations. Topics include pregnancy, diabetes, arthritis, stroke, respiratory disorder, coronary artery disease, hypertension, and obesity.

Letter grade only (A-F).

367. Fitness and the Aging Process (3)

Prerequisites: Fitness Option: KIN 218 and KIN 301; KIN Exercise Science Option: KIN 301; or consent of instructor.

Provides knowledge in the area of fitness and the older adult. Topics include theories of aging, age-related changes that affect physical capacity, exercise and its impact on the aging process, and physical activity programming for the older adult.

Letter grade only (A-F). (Discussion 2 hours, Laboratory 2 hours)

368. Resistance Training for Fitness (3)

Prerequisite(s): Prerequisites: KIN 300 and KIN 301. Open to Fitness Option students in Kinesiology or consent of instructor.

The focus of the course will be on the proper execution of resistance exercises typically performed in fitness facility settings. Students will learn to design resistance-training programs based on scientific principles for developing muscular strength, endurance and power.

Letter grade only (A-F). (Discussion 2 hours, Activity 2 hours)

370. Movement Theory and Practice of Elementary Physical Education (3)

Prerequisite: KIN 270.

Provides Kinesiology Physical Education Teacher Education (PETE) Option candidates with movement theory and practice in elementary school physical education based upon California Physical Education Framework and Content Standards. Practice includes fieldwork experiences in elementary school physical education.

Designed for Kinesiology majors. (Lecture 2 hours, Activity 2 hours)

380. Principles, Organization and Management of Secondary School Physical Education (3)

Prerequisites: KIN 149A, KIN 237, KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 261, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, KIN 343, KIN 370 or consent of instructor. Suggest concurrent enrollment in EDSS 300P (single subject credential course).

Principles, organization and management of activities taught in secondary schools, includes basic organization and management strategies and fieldwork experience in public secondary school physical education.

Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

387. Physical Activities for the Disabled (3)

Prerequisites: KIN 320

Adaptation of physical activities, equipment, and facilities for individuals with permanent disabilities affecting motor performance.

Letter only (A-F). (Lecture 2 hours, Activity 2 hours)

388. Program Planning and Instruction in Adapted Physical Education (3)

Prerequisite: KIN 387.

Emphasis on program planning and the development of teaching skills in Adapted Physical Education.

Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

405. Cardiopulmonary Aspects of Health-Related Exercise Programs (4)

Prerequisites: KIN 210 or current First Aid and CPR certificates, KIN 301. Open to Exercise Science Option students in Kinesiology only, or consent of instructor.

Theory and practical application of physical fitness assessment. Emphasis will be placed on the use of assessments to design and implement basic fitness programs for apparently healthy individuals.

Letter grade only (A-F). (Lecture 3 hours, Laboratory 3 hours)

427./527. Physical and Motor Assessment (3)

Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent; upper-division undergraduate or graduate standing; consent of instructor required for graduate students prior to registration.

The selection, administration, and interpretation of standardized and informal tests used in the physical and motor assessment practices of individuals with disabilities.

Upper-division students register in KIN 427; Graduate students register in KIN 527. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

430. Motor Control Principles and Theory (3)

Prerequisite: KIN 312 or equivalent. Open to Exercise Science Option students in Kinesiology only, or consent of instructor.

Study of the principles, models, and theories of human movement control. Instruction is directed toward understanding the fundamental principles, theoretical propositions, and neuro-kinesiological models, with applications to sport, physical education, human factors, and human performance.

Letter grade only (A-F).

431. Scientific Foundations of Locomotion (3)

Prerequisites: KIN 300, KIN 312. Open to Exercise Science Option students in Kinesiology only, or consent of instructor.

Instruction is directed towards understanding the influence of motor control theories, biomechanical principles, and constraints to human movement on locomotion.

Letter grade only (A-F).

432. Applied Motor Learning (3)

Prerequisites: KIN 300 and KIN 312.

Provides students with an applied perspective of Motor Learning. Motor learning topics addressed include: theory, research, and application. Focuses on requiring students to apply various motor learning concepts into real world environments.

Letter grade only (A-F).

441./541. Applied Biomechanics: Lifting and Work Capacity (3)

Prerequisites: KIN 300 or equivalent (Trigonometry and PHYS 100A recommended). Open to Exercise Science Option students in Kinesiology only, or consent of instructor.

Study of the mechanical properties of bone, ligament, tendon and skeletal muscle. Development, description, and application of selected biomechanical models to the evaluation of weight-lifting, rehabilitation exercises, and occupational lifting tasks. Critical analysis of methods used to assess strength.

Letter grade only (A-F).

457. Applied Theory of Teaching Team Sports (3)

Prerequisites: KIN 250, KIN 251, KIN 253, KIN 255, KIN 257, KIN 270 or consent of instructor; senior standing.

Comprehensive analysis of the principles of movement, corrections of performance, and organizational strategies utilized in presenting team sports: basketball, flag football, soccer, softball, volleyball, floor hockey, speedball, and team handball.

Letter grade only (A-F). (Lecture 2 hours, activity 2 hours)

460. Applied Theory and Analysis of Non-Traditional Physical Education Games and Activities (2)

Prerequisites: KIN 370, senior standing.

Organization and management to effectively plan and implement a variety of non-traditional physical education games and activities such as cooperative games, problem solving activities, collaborative learning groups, and outdoor educational experiences.

Letter grade only (A-F). Open to Kinesiology majors and minors only. (Lecture 1 hour, Laboratory 3 hours)

461. Applied Theory of Teaching Individual and Dual Sports (3)

Prerequisites: KIN 237, KIN 264, KIN 265, KIN 266, KIN 267, KIN 268, KIN 270, or consent of instructor; senior standing.

Comprehensive analysis of the principles of movement and organizational strategies utilized in archery, badminton, golf, paddle tennis, pickleball, racquetball, tennis, swimming, orienteering, and track and field.

Open to Kinesiology majors in the Adapted PE Option and K-12 PE Option. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

462./562. Advanced Strength and Conditioning (3)

Prerequisites: KIN 300, KIN 301. Open to Athletic Training, Exercise Science and Fitness majors in Kinesiology or consent of instructor.

Study of biomechanical and kinesiological factors which are important in understanding the function and proper techniques for execution of a wide variety of standard and advanced weight training exercises. Physiological bases for strength training and adaptations caused by different training regimes are emphasized.

Letter grade only (A-F).

465./565. Clinical Exercise Electrocardiography (3)

Prerequisites: BIOL 207 and KIN 301. Open to Exercise Science and Fitness Option students in Kinesiology only, or consent of instructor.

Study of the physiology and patho-physiology of the electrical activity of the heart. Instruction is directed toward pattern recognition of normal and abnormal resting and exercise electrocardiograms.

466./566. Biochemical and Hormonal Adaptations to Physical Activity (3)

Prerequisites: KIN 301 or equivalent; CHEM 111A or its equivalent. Open to Exercise Science Option students in Kinesiology only, or consent of instructor.

Study of the biochemical and hormonal changes that occur as a result of acute and chronic physical activity. Emphasis will be placed on the application of concepts to the development of exercise training programs.

Consent of instructor required for upper-division undergraduate students prior to registration. Upper-division undergraduate students register in KIN 466; graduate students register in KIN 566. Letter grade only (A-F). Same course as NUTR 466. Not open for credit to students with credit in NUTR 466.

467. Fundamentals of Personal Training (3)

Prerequisites: KIN 368. Open to Fitness Option students in Kinesiology only, or consent of instructor.

Designed to provide the student with theoretical knowledge and practical skills needed to become a personal trainer. Covers such topics as the business of personal training, client-trainer relationships, fitness and health assessments and exercise prescription.

Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours)

468./568. Nutrition for Exercise and Performance (3)

Prerequisites: NUTR 132, KIN 301 for the KIN Fitness option and the KIN Exercise Science option or BIOL 207 for the Nutrition and Dietetics option.

Explores role nutrients play in exercise and performance enhancement. Topics include evaluation of energy needs during physical activity, examination of weight management practices, assessment of nutritional status, and investigation of contemporary dietary issues related to exercise.

Letter grade only (A-F). Same course as NUTR 468. Not open for credit to students with credit in NUTR 468. Open to Kinesiology undergraduate students in the Fitness and Exercise Science options and to the Nutrition and Dietetics option in Family and Consumer Sciences.

469. Fitness Management (3)

Prerequisite: KIN 363, KIN 368. Open to Fitness Option students in Kinesiology only, or by consent of instructor.

Provides knowledge in the area of management of fitness programs. Topics will include program development, personnel issues, financial and legal considerations, equipment purchasing, and marketing strategies for fitness programs.

Open to Fitness Option students in Kinesiology only, or by consent of instructor. Letter grade only (A-F).

472./572. Applied Sport Psychology (3)

Prerequisites: KIN 339. Open to Sport Psychology and Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

Application of psychological skills and interventions to enhance athletic performance.

Letter grade only (A-F). Undergraduates register in KIN 472; graduates register in KIN 572. A written report is required for KIN 572 students.

475./575. Psychology of Coaching (3)

Prerequisites: KIN 339. Open to Sport Psychology & Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

Current topics of psychological concern and application as related to athletic performance.

Letter grade only (A-F). Undergraduates register in KIN 475; graduates register in KIN 575. A written report is required for KIN 575.

476. Physical Education for the Elementary School Teacher (3)

Prerequisite: Junior standing.

Provides Multiple Subject Credential candidates with knowledge and experiences necessary to teach quality physical education lessons based upon the California Physical Education Framework and Content Standards. Content includes the FITNESSGRAM Program (state fitness test) and subject integration activities.

(Lecture 2 hours, Activity 2 hours)

477. Measurement and Curriculum in Physical Education (3)

Prerequisite: KIN 343 and KIN 370 or consent of instructor

Course provides students with experiences in content development, program implementation, and evaluation of a physical education program. This service-learning component allows students to teach and critically reflect on subject matter while assisting a population in need.

Letter grade only (A-F). (2 hours lecture discussion, 2 hours lab)

478./578. Psychological Aspects of Exercise and Fitness (3)

Prerequisites: KIN 339. Open to Fitness and Sport Psychology and Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

Philosophical, psychological and behavioral concepts of physical activities and health states will be discussed. Professional standards and invention strategies will be covered.

Letter grade only (A-F).

Undergraduates register in KIN 478; graduates register in KIN 578; A written report is required for KIN 578.

483. Statistics in Human Movement Science (3)

Prerequisites: KIN 300, KIN 301, KIN 312.

Evaluation and analysis of measuring devices and resulting data used in Kinesiology. Interpretation of data using appropriate statistical analyses. (Lecture 2 hours, Activity 2 hours)

487./587. Supervised Activity Instruction Experience (1-3)

Prerequisite: Upper division or graduate standing and consent of instructor.

Experience in the organization of and methods for the activity component of a course in kinesiology. A written report is required for KIN 587 students.

Undergraduates register in KIN 487; graduates register in KIN 587. May be repeated to a maximum of 4 units. Letter grade only (A-F). Restricted to major students only. Not open for credit to graduate students with credit in KIN 487. (Conference 1 hour, Laboratory 2 hours per unit)

489. Field Work in Physical Activity Settings (3) Prerequisite: Completion of Kinesiology course requirements for the major Option in which field work is taken.

Supervised practice in working with individuals or small to large groups in public or private agencies and schools.

Letter grade only (A-F). Course fee may be required. May be repeated to a maximum of 9 units.

- A. Fieldwork in Adapted Physical Education
- B. Fieldwork in Athletic Coaching
- D. Fieldwork in Fitness

Additional Prerequisites: KIN 467, completion of 200 hours in a corporate fitness setting, 200 hours in a traditional fitness setting, and 100 hours of approved fitness experience. Open to Fitness Option students in Kinesiology only.

- G. Fieldwork in Sport Training and Research
- K. Fieldwork in Wilderness Studies

Additional Prerequisites: KIN 242, KIN 244, KIN 246A or KIN 247A, KIN 243C or KIN 245A. Certification in CPR and First Aid, and consent of instructor.

494./594. Exercise Science Internship (3)

Prerequisites: Upper-division or graduate standing with a grade of "B" or better in KIN 300 for a biomechanics internship or KIN 301 for an exercise physiology internship or KIN 312 for a motor control and learning internship; consent of instructor required prior to registration.

Provides practical experience in applying exercise science concepts in a fieldwork setting such as cardiac rehabilitation in a medical setting.

Upper-division undergraduate students register in KIN 494; Graduate students register in KIN 594. Letter grade only (A-F). May be repeated to a maximum of 6 units. Course fee may be required.

495./595. Supervised Laboratory Methods (1-3)

Prerequisites: Upper division or graduate standing and consent of instructor.

Provides experience in the methods of the laboratory component for a Kinesiology course, for example, assisting students with their experiments and laboratory reports.

Undergraduates register in KIN 495; graduates register in KIN 595. A written report is required for KIN 595 students. Letter grade only (A-F). Restricted to Kinesiology major students only. Not open for credit to graduate students with credit in KIN 495. (Conference 1 hour, Laboratory 2 hours per unit) May be repeated to a maximum of 4 units.

497. Independent Study (1-3)

Prerequisites: Major in Kinesiology, senior standing and consent of Kinesiology Department.

Student will conduct independent library or laboratory research under the supervision of a faculty member and write a report of the investigation.

May be repeated to a maximum of 6 units. Letter grade only (A-F).

499. Selected Topics in Kinesiology (1-3)

Group investigation of topics of current interest in kinesiology or athletics.

May be repeated to a maximum of 6 units with different topics. Topics announced in the *Schedule of Classes*.

GRADUATE LEVEL

511. Sports Marketing, Development, and Fund Raising (3)

Prerequisites: Graduate standing and a Baccalaureate Degree in Kinesiology/Physical Education or related field and admission to the Kinesiology Graduate Sports Management Program.

Provides students with an overview of sport marketing. It presents basic marketing terminology and discusses the application of marketing concepts to the development and promotion of the business of sport.

Letter grade only (A-F).

511A. Sport Marketing, Development, and Fundraising Management (3)

Prerequisite: Graduate Standing; admission to the Graduate Program in Sport Management

The application of marketing principles, research, segmentation, product development, pricing, event marketing, sponsorship, fundraising, consumer behavior, licensing, branding, advertising, and sales promotion within the context of effective sport marketing. Letter grade only (A-F).

511B. Sport Marketing, Development, and Fundraising Management (3)

Prerequisite: Graduate Standing; admission to the Graduate Program in Sport Management

Addresses various aspects of sport management including advertising, marketing platforms, social media program development, personal branding, sales development, sponsor motivations, sport philanthropy, crisis management, key performance indicators, public relations, consumer insights, and leveraging relationships

Letter grade only (A-F).

512. Legal and Ethical Issues in Sport (3)

Prerequisites: Graduate standing; admission into the Kinesiology Graduate Sport Management Program; or consent of instructor.

Examines legal and ethical issues associated with sport settings.

Letter grade only (A-F).

513. Personnel and Facility Management in Athletics (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

Examines the principles and practices associated with managing personnel and facilities in interscholastic, intercollegiate, amateur, international, and professional sport.

Letter grade only (A-F).

514. Sport Finance (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

Discusses financial management principles for use in interscholastic, intercollegiate, amateur, international, and professional sports. Special emphasis is placed on understanding various means by which sport organizations control costs and increase revenue.

Letter grade only (A-F).

521. Foundations of Sport Management (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

Introduces students to the business of sport and the functional areas of Sport Management. Discusses the leadership/supervisory philosophies, principles, and practices of managing interscholastic, intercollegiate, amateur, international, and professional sport.

522. Non-Traditional Activities in K-12 Physical Education (3)

Prerequisite: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies.

Plan, implement, and evaluate nontraditional games and activities. Emphasis is on meeting needs of diverse populations, including students with disabilities, problem-solving, assessment, safety and injury prevention, ethical issues, group discussion, analysis of school outdoor educational experiences.

Letter grade only (A-F).

524. Analysis of Teaching in Physical Education (3)

Analysis of teachers and teaching in physical activity environment: focus on developing observational competencies, analysis of research completed and future research designs.

525. Instructional Design in Physical Education (3)

Prerequisites: Undergraduate major in physical education, EDST 300.

A systems approach to designing instruction for the physical education program.

526. Applied Behavior Analysis in Physical Education (3)

Application of applied behavior analysis principles to physical education (sport) with particular emphasis on single subject research designs and behavior analysis in the physical education setting.

527./427. Physical and Motor Assessment (3)

Prerequisites: KIN 315 or equivalent and KIN 320 or equivalent. Upper-division undergraduate or Graduate standing.

Includes the selection, evaluation, administration and interpretation of various tests used in the physical and motor assessment practices of individuals with disabilities.

Consent of instructor required for graduate students prior to registration. Requirement toward the Adapted Physical Education Specialist Credential. Upper-division students register in KIN 427; Graduate students register in KIN 527. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours)

528. Promoting Physical Activity and Fitness in K-12 Physical Education (3)

Prerequisite: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies.

Develop physical education program plans that are in compliance with California State Content Standards for promoting physically active lifestyles and healthy physical fitness levels for all children, including those with special needs.

Letter grade only (A-F).

529. Positive Youth Development and Physical Activity (3).

Prerequisites: Graduate Standing; admission to the Master Program in Kinesiology.

Course provides theoretical foundations and practical applications of positive youth development programs in physical activity settings. Emphasis placed on programs that serve youth through physical activity, with special emphasis on promoting levels of personal and social responsibility. (2 hours lecture, 2 hours activity)

Letter grade only (A-F)

530. Neuromotor Control (3)

Prerequisites: Graduate standing, KIN 312 or equivalent.

Study of the neurological and muscular contributions to the control of human movement with emphasis on application of concepts to sports, physical activity, and human factors. Instruction is directed toward understanding the fundamental principles of motor control.

Letter grade only (A-F).

537. Physical Education for Special Populations (3)

Foundations in the organization and conduct of Adapted Physical Education.

540. Biomechanical Factors in Human Movement (3)

Prerequisite: KIN 300 or equivalent.

Study of film, video and force plate data collection for human movement evaluation, including data smoothing techniques. Quantitative kinematic and kinetic analysis examples including gait, jumping and lifting activities. Comparison of 2D versus 3D analyses of movement activities.

Letter grade only (A-F).

541./441. Applied Biomechanics: Lifting and Work Capacity (3)

Prerequisite: KIN 300 or equivalent (Trigonometry and PHYS 100A recommended).

Study of the mechanical properties of bone, ligament, tendon and skeletal muscle. Development, description, and application of selected biomechanical models to the evaluation of weight-lifting, rehabilitation exercises, and occupational lifting tasks. Critical analysis of methods used to assess strength.

Letter grade only (A-F).

551. Advanced Exercise Physiology (3)

Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent. Advanced concepts in exercise physiology.

Letter grade only (A-F).

552. Exercise Testing and Training in Health and Disease (3)

Prerequisites: KIN 301 or equivalent and BIOL 207 or equivalent

Physiological principles of exercise testing and exercise training in healthy individuals and patients with diseases such as coronary artery disease.

Letter grade only (A-F).

553. Environmental Aspects of Human Performance (3)

Prerequisites: Graduate standing; KIN 301 or equivalent with a grade of "C" or better or consent from the instructor.

Study of the physiological responses and adaptations associated with exposure to environmental stressors including heat, cold, microgravity, air pollution, and elevated and reduced atmospheric pressures. Emphasis will be placed upon physical performance and its limitations under various environmental conditions.

Letter grade only (A-F).

560. Health Related Problems in Sport (3)

Prerequisites: KIN 207 and KIN 301 or their equivalents and BIOL 207 and 208 or their equivalents.

Examination of health problems related to engaging in vigorous physical activity.

Letter grade only (A-F).

561. Musculoskeletal Injuries in Sport (3)

Prerequisites: KIN 207 and KIN 300 or their equivalents and BIOL 208 or its equivalent.

An in-depth study of the most prevalent musculoskeletal injuries occurring in sports activities, including mechanisms, tissue responses, and management procedures.

Letter grade only (A-F).

562./462. Advanced Strength and Conditioning (3)

Prerequisites: KIN 300, KIN 301.

Study of biomechanical and kinesiological factors which are important in understanding the function and proper techniques for execution of a wide variety of standard and advanced weight training exercises. Physiological bases for strength training and adaptations caused by different training regimes are emphasized.

Letter grade only (A-F).

565./465. Clinical Exercise Electrocardiography (3)

Prerequisites: BIOL 207, KIN 301, and/or consent of instructor.

Study physiology and patho-physiology of electrical activity of the

heart. Instruction directed toward pattern recognition of normal and abnormal resting and exercise electrocardiograms.

566./466. Biochemical and Hormonal Adaptations to Physical Activity (3)

Prerequisites: Upper-division undergraduate or Graduate standing; KIN 301 or equivalent; CHEM 111A or its equivalent. Consent of instructor required for upper-division undergraduate students prior to registration.

Study of biochemical and hormonal changes that occur as a result of acute and chronic physical activity. Emphasis on application of concepts to development of exercise training programs.

Upper-division undergraduate students register in KIN 466; graduate students register in KIN 566. Letter grade only (A-F). Same course as FCS 566. Not open for credit to students with credit in FCS 566.

568./468. Nutrition for Exercise and Performance (3)

Prerequisites: NUTR 132, KIN 301 for the KIN Fitness option and the KIN Exercise Science option or BIOL 207 for the Nutrition and Dietetics option.

Explores the role nutrients play in exercise and performance enhancement. Topics include evaluation of energy needs during physical activity, examination of weight management practices, assessment of nutritional status, and investigation of contemporary dietary issues related to exercise.

Letter grade only (A-F). Same course as FCS 568. Not open for credit to students with credit in FCS 568. Open to all graduate Kinesiology students in the Adapted Physical Education, Coaching and Student Athlete Development, Pedagogical Studies (for K-12 teachers), Sport Management, Individualized Studies, Exercise Science, Exercise Physiology and Nutrition, Sport and Exercise Psychology, and Sports Medicine and Injury Studies options and M.S. students in the Nutritional Science without Dietetic Internship, Nutritional Science with Dietetic Internship, and Food Science emphases and/or consent of instructor.

572./472. Applied Sport Psychology (3)

Prerequisites: KIN 339. Open to Sport Psychology and Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

Application of psychological skills and interventions to enhance athletic performance.

Letter grade only (A-F). Graduates register in KIN 572; undergraduates register in KIN 472. A written report is required for KIN 572 students.

573. History of Sport in the U.S.A. (3)

Prerequisite: KIN 335 or equivalent.

An analysis of the history of American sport as it reflects the dominant themes in American society.

575./475. Psychology of Coaching (3)

Prerequisites: KIN 339. Open to Sport Psychology and Leadership students in Kinesiology only, or by consent of instructor or graduate standing.

Current topics of psychological concern and application as related to athletic performance.

Letter grade only (A-F). Graduates register in KIN 575; undergraduates register in KIN 475. A written report is required for KIN 575.

577. Sport in U.S. Culture (3)

Prerequisite: KIN 332 or equivalent.

Analysis of physical activities in U.S. culture. Consideration of the relationships between sports and games and the factors of status, values, environment and cultural change.

578./478. Psychological Aspects of Exercise and Fitness (3)

Prerequisites: KIN 339. Open to Fitness and Sport Psychology and Leadership students in Kinesiology only, or by consent of instructor

or graduate standing.

Philosophical, psychological and behavioral concepts of physical activities and health states will be discussed. Professional standards and invention strategies will be covered.

Letter grade only (A-F).

Graduates register in KIN 578; undergraduates register in KIN 478; A written report is required for KIN 578.

580. Computer Applications in Physical Education (3)

Prerequisites: Graduate standing, consent from instructor. Introduction to computer hardware and software used in Kinesiology including DOS/Windows and Apple Macintosh operating systems.

Topics include: hardware, operating systems, word-processing, spreadsheets, data exchange, presentation graphics/authoring tools, and video capture. Emphasis will be placed on integrating the use of hardware and software into a variety of Physical Education environments.

587./487. Supervised Activity Instruction Experience (1-3)

Prerequisite: Upper division or graduate standing and consent of instructor.

Experience in the organization of and methods for the activity component of a course in kinesiology and physical education.

Undergraduates register in KIN 487; graduates register in KIN 587. A written report is required for KIN 587 students. May be repeated to a maximum of 4 units. Letter grade only (A-F). Restricted to major students only. Not open for credit to graduate students with credit in KIN 487. (Conference 1 hour, Laboratory 2 hours per unit)

590. Statistical Analysis and Measurement in Kinesiology and Physical Education (3)

Prerequisites: EDSE 421, EDSS 450P or EDSS 450W, KIN 483 or equivalent.

Introduces students to the logic and application of basic descriptive and inferential statistics (i.e., correlation, regression, and analysis of variance) and includes a critical analysis of selected research publications.

Required of all master's degree candidates. To be completed within first 12 units of 500-600 series courses.

591. Field Studies in Sport Event Management (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

Practical field-based course requires students to complete 15 hours of classroom seminar instruction and 120 hours of supervised practical experience in a managed sport setting.

Letter grade only (A-F).

592A. Sports Management Internship (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management.

A minimum of 20 hours per week for 16 weeks of supervised work experience in an approved sport management/administrative setting, jointly supervised by a University Faculty member and a supervisor from the assigned organization. May be in a paid or volunteer capacity.

Note: 6 units in one semester may not be taken if student is full-time employed. May be repeated to a maximum of 6 units. Letter grade only (A-F).

593A. Coaching Internship (3)

Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; advancement to candidacy and approval of Intern Coordinator.

A minimum of 20 hours per week for 16 weeks of supervised work experience in an approved coaching setting, jointly supervised by a University Faculty member and a supervisor from the assigned

organization. May be in a paid or volunteer capacity. Note: 6 units in one semester may not be taken if student is full-time employed.

May be repeated to a maximum of 6 units. Course fee may be required. Letter grade only (A-F).

593B. Coaching Internship (6)

Prerequisites: Bachelor degree with a major or minor in Kinesiology or Physical Education or an approved related major; advancement to candidacy and approval of Intern Coordinator.

A minimum of 40 hours per week for 16 weeks of supervised work experience in an approved coaching setting, jointly supervised by a University Faculty member and a supervisor from the assigned organization. May be in a paid or volunteer capacity. Note: May not be taken if student is full-time employed.

Letter grade only (A-F). Course fee may be required.

594./494. Exercise Science Internship (3)

Prerequisites: Upper division or graduate standing with a grade of "B" or better in KIN 300 for a biomechanics internship or KIN 301 for an exercise physiology internship or KIN 312 for a motor control and learning internship. Consent of instructor required prior to registration.

Provides a minimum of 120 hours of practical experience in applying exercise science concepts in a fieldwork setting. Will provide such experiences as conducting the biomechanical/physiological exercise testing and/or leading the exercise training of selected subject populations such as patients undergoing cardiac rehabilitation, asymptomatic adults, and athletes.

Upper-division undergraduate students register in KIN 494; Graduate students register in KIN 594. Letter grade only (A-F). May be repeated to a maximum of 6 units. Course fee may be required.

595./495. Supervised Laboratory Methods (1-3)

Prerequisites: Upper division or graduate standing and consent of instructor.

Experience in the organization of and methods for a laboratory in kinesiology and physical education. Includes assisting students with their experiments and laboratory reports.

Undergraduates register in KIN 495; graduates register in KIN 595) A written report is required for KIN 595 students. May be repeated to a maximum of 4 units. Letter grade only (A-F). Restricted to Kinesiology major students only. Not open for credit to graduate students with credit in KIN 495. (Conference 1 hour, laboratory 2 hours per unit) May be repeated to a maximum of 4 units.

596. Practicum in Physical Education Pedagogy (3)

Prerequisites: Graduate standing; admission to the Master of Arts Program in Pedagogical Studies.

Students are required to evaluate their teaching and provide documentation that they are addressing all of the physical education standards for individuals ages 3-18 that have been established by the National Board for Teacher Certification (NBPTS).

Letter grade only (A-F).

597. Independent Research (1-3)

Prerequisites: Consent of Kinesiology faculty member and graduate advisor.

Independent research under the guidance of a faculty member. Varied learning activities utilized to achieve competency related to Physical Education not offered in regular classes.

Written report required. Letter grade only (A-F). (Independent Study)

630. Seminar in Motor Learning (3)

Prerequisites: KIN 312 and KIN 696 (may be taken concurrently).

Identification and analysis of motor learning principles and theories applicable to training, learning, and rehabilitation in sport, physical education, recreation, and therapeutic settings.

633. Seminar in Sport Psychology (3)

Prerequisite: KIN 339 or consent of instructor.

Study of psychological theories and their relationship to human behavior in sport and other physical activity settings.

638. Seminar in Trends in Adapted Physical Education (3)

Prerequisites: KIN 537 or equivalent.

An examination and analysis of the current trends in Adapted Physical Education.

671. Seminar in Current Trends and Issues in Kinesiology (3)

Prerequisite: Graduate standing.

Examines current trends and issues in Kinesiology, develop and defend personal perspective on significant issues, and identify problems and develop plans for problem-solution in organizational/professional contexts.

Letter grade only (A-F).

694. Capstone in Kinesiology (3)

Prerequisite: KIN 696 and admission into a Kinesiology graduate program.

Focuses on the process, production, and presentation of research projects in Kinesiology.

Letter grade only (A-F).

695. Seminar in Professional Literature (3)

Prerequisites: Graduate standing; admission into the Graduate Program in Sport Management

Critical analysis and synthesis of professional literature in Kinesiology. Professional portfolio required to be submitted during the class.

Required of all candidates not electing thesis option.

696. Research Methods and Statistical Analysis (3)

Prerequisites: Undergraduate major in Kinesiology or related field, undergraduate Statistic course or equivalent.

Methodological approaches to contemporary problems in Kinesiology, including research design, data collection and analysis, and application of descriptive and inferential statistics.

697. Directed Studies (1-3)

Prerequisites: KIN 696 and advancement to candidacy.

Research in an area of specialization under the direction of a faculty member.

698. Thesis/Project (1-6)

Prerequisites: KIN 696 and advancement to candidacy.

Planning, preparation and completion of an approved thesis/project. May be repeated to a maximum of 6 units with same topic in different semesters.

699. Selected Topics in Kinesiology (3)

Intensive study of salient problems of current professional importance to experienced physical educators.

May be repeated to a maximum of 6 units with different topics. Topics announced in the *Schedule of Classes*.

Athletic Training Courses (ATEP)

LOWER DIVISION

207. Prevention and Care of Athletic Injuries (3)

Prerequisites: Current certification in CPR, AED, and First Aid. Certification must include Adult, Child, and Infant CPR; Conscious and Unconscious Choking for victims of all ages; Automated External Defibrillator (AED), and Basic First Aid.

Corequisite: KIN 201

Principles and techniques of the prevention and care of common athletic injuries.

Not open for credit to students with credit in KIN 207. (Lecture 2 hours, Activity 2 hours).

UPPER DIVISION

304. Clinical Aspects of Athletic Training (3)

Prerequisites: Admission to the Athletic Training program and consent of instructor.

Principles and techniques of related clinical concepts applicable to the athletic training setting. Open to Kinesiology majors in athletic training. Letter grade only (A-F). Not open for credit to students with credit in KIN 304. (Lecture 2 hours, Activity 2 hours).

306. Medical Aspects of Athletic Training (3)

Prerequisites: ATEP 490B.

Principles and techniques of related medical concepts applicable to the athletic training setting.

Open to Kinesiology majors in athletic training or consent of instructor. Letter grade only (A-F). Not open for credit to students with credit in KIN 306.

308A. Athletic Training Evaluation I (3)

Prerequisite(s): ATEP 304.

Study of athletic training clinical skills required for assessment of pathologies to the lower extremity and lumbar spine. Integrate anatomical knowledge and evaluation techniques to provide a basis for critical decision-making in injury management.

Open to Kinesiology majors in Athletic Training or consent of instructor. Letter grade only (A-F). Not open for credit to students with credit in KIN 308A. (Lecture 2 hours, Activity 2 hours)

308B. Athletic Training Evaluation II (3)

Prerequisite: ATEP 308A.

Study of athletic training clinical skills required for assessment of pathologies to the head, face, upper extremity, and cervical spine. Integrate anatomical knowledge and evaluation techniques to provide a basis for critical decision-making in injury management.

Open to Kinesiology majors in Athletic Training or consent of instructor. Letter grade only (A-F). Not open for credit to students with credit in KIN 308B. (Lecture 2 hours, Activity 2 hours)

309. Developmental and Therapeutic Exercise (3)

Prerequisites: KIN 300, KIN 301 or consent of instructor.

Principles, techniques, and application of therapeutic exercise programs for managing musculoskeletal conditions. Open to Kinesiology majors in Athletic Training and Fitness or consent of instructor. Letter grade only (A-F). Not open for credit to students with credit in KIN 309. (Lecture 2 hours, Activity 2 hours).

310. Therapeutic Approaches in Athletic Training (3)

Prerequisite(s): ATEP 304.

Theory and application of therapeutic modalities and exercise rehabilitation commonly used in athletic training programs.

Not open for credit to students with credit in KIN 310. Letter grade only (A-F). (Lecture 2 hours, Activity 2 hours).

407. Management Strategies in Athletic Training (3)

Prerequisite(s): ATEP 490B.

Professional issues, administration, and management strategies of athletic training programs.

Letter grade only (A-F). Not open for credit to students with credit in KIN 407.

490A. Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 304; satisfactory completion of CSULB Athletic Training Program Health and Safety requirements; and satisfactory completion of CSULB Athletic Training Program Technical

Standards Form.

First of four semesters. Clinical experiences with formal instruction and evaluation of the Athletic Training Education Competencies. Weekly campus clinical education meeting. Preceptor supervised clinical education (Clinical hour requirement: Minimum of 250 hours / Maximum of 400 hours).

Letter grade only (A-F). Not open for credit to students with credit in KIN 490A. Course fee may be required.

490B. Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490A.

Second of four semesters. Continuation of clinical experiences with formal instruction and evaluation of the Athletic Training Education Competencies. Weekly campus clinical education meeting. Preceptor supervised clinical education (Clinical hour requirement: Minimum of 250 hours / Maximum of 400 hours).

Letter grade only (A-F). Not open for credit to students with credit in KIN 490B. Course fee may be required.

490C. Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490B.

Third of four semesters. Continuation of clinical experiences with formal instruction and evaluation of the Athletic Training Education Competencies. Weekly campus clinical education meeting. Preceptor supervised clinical education (Clinical hour requirement: Minimum of 250 hours / Maximum of 400 hours).

Letter grade only (A-F). Not open for credit to students with credit in KIN 490. Course fee may be required.

490D. Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490C.

Fourth of four semesters. Continuation of clinical experiences with formal instruction and evaluation of the Athletic Training Education Competencies. Weekly campus clinical practicum meeting. Preceptor supervised clinical education (Clinical hour requirement: Minimum of 250 hours / Maximum of 400 hours).

Letter grade only (A-F). Not open for credit to students with credit in KIN 490D. Course fee may be required.

490E. Clinical Education in Athletic Training (2)

Prerequisites: Consent of instructor and successful completion of ATEP 490D.

Clinical experiences designed to advance knowledge and skills to become a professional (entry level) certified athletic trainer. Preceptor supervised clinical education (Clinical hour requirement: Minimum of 250 hours / Maximum of 400 hours).

Letter grade only (A-F). Not open for credit to students with credit in KIN 490E. Course fee may be required.

491. Seminar in Athletic Training (1)

Prerequisites: Consent of instructor and successful completion of ATEP 490C. Corequisite: ATEP 490D.

Strategies and focus on the acquisition and application of knowledge and skills for integration to clinical practice to transition from a student to professional. Students gain understanding of the Athletic Training Education Competencies, Standards of Practice, National Athletic Trainers Association, Inc., CAATE, and the BOC certification process for athletic trainers.

Letter grade only (A-F).