

Program

BA in Kinesiology

Options in:

Movement Studies

Physical Education Teacher Education

BS in Exercise Physiology

(Pre-Physical Therapy)

Minor in Physical Education

Minor in Coaching

Minor in Exercise Science

Certificate in Outdoor Education

Certificate in Sport and

Human Performance

Specialist Credential in

Adapted Physical Education

Single Subject Teaching Credential in

Physical Education

MA in Kinesiology

Option in Athletic Training Education

Vision

To be a national leader in communicating and creating knowledge about physical activity to enhance the quality of life for all.

Mission Statement

The mission of the Department of Kinesiology is to communicate and create knowledge about sport, exercise, and physical activity. The department achieves its mission through innovative and engaging instruction, scholarship, and professional service. The uniqueness of our integrative discipline is that we work to promote lifelong learning and physical activity to enhance the quality of life and health for all.

Career Outlook

Society is recognizing the health and quality of life implications associated with low levels of physical activity. Graduates of the Department of Kinesiology are well prepared to work in a variety of physical activity professions serving people of all ages. Student-centered instruction blending theoretical knowledge and hands-on experience makes our graduates attractive candidates for careers or advanced study in fitness leadership, physical education, and sports medicine.

Facilities

The Department of Kinesiology is fortunate to have quality facilities on campus and access to beautiful outdoor areas in Northern California. The department is housed in the new 64,000 square foot Yolo Hall located adjacent to the Shurmer-Acker Gym complex and playing fields. Department majors utilize dedicated laboratories for adapted physical education, athletic training, biomechanics, exercise physiology, fitness, motor behavior, and pedagogy. Other instructional facilities include dance studios, a climbing wall, a ropes course, two gymnasiums, handball/racquetball courts, tennis courts, swimming pools, a track, weight training/fitness rooms, and golf, soccer and multipurpose fields.

Activity Classes

The department offers activity courses designed to help students improve skills and appreciation of lifetime physical activity. Students may elect to take several courses from a wide variety of classes like aerobic exercise, dance, martial arts, traditional sports, outdoor activities, and yoga.

Kinesiology and Exercise Physiology

College of Communication and Education
Dean: Phyllis Fernlund

Department of Kinesiology

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Chair: Duane Knudson

Associate Chair: Scott Roberts

Program Coordinators:

Graduate Studies: David Swanson

Adapted Physical Education: Rebecca Lytle

Movement Studies: Traci Ciapponi

Exercise Physiology: Scott Roberts

Outdoor Education: Reid Cross

Physical Education Teacher Education:

Craig Buschner

The Bachelor of Arts in Kinesiology

Total Course Requirements for the Bachelor's Degree: 120 units

See "requirements for the Bachelor's Degree" in the *University Catalog* for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

Your major department has prepared a Four Year Advising Plan to help you meet all graduation requirements within four years. Please request a plan from your major advisor or view it and other current advising information on the CSU, Chico Web.

Total Course Requirements for the Bachelor's Degree with the Option in Physical Education Teacher Education: 135 units

Students graduating with the Option in Physical Education Teacher Education earn a Bachelor of Arts in Kinesiology, physical education subject matter competency, and a single subject teaching credential. Students are advised to plan their General Education requirements carefully.

General Education Requirements: 48 units

See "General Education Requirements" in the University Catalog and the Class Schedule for the most current information on General Education Requirements and course offerings. The course requirements marked below with an asterisk (*) may also be applied toward General Education.

Option in Teacher Education

HIST 130 may be used to fulfill Breadth Area C1, C2, or C3 requirements; POLS 155 may be used to fulfill any one of the Breadth Area D1, D2, or D3 requirements; and HCSV 451 may be used to fulfill Area E requirements.

Diversity Course Requirements: 6 units

See "Diversity Requirement" in the University Catalog. Most courses taken to satisfy these requirements may also apply to General Education.

U.S. History, Constitution, and American Ideals: 6 units

See "U.S. History, Constitution, and American Ideals" under "Bachelor's Degree Requirements". This requirement is normally fulfilled by completing HIST 130 and POLS 155 or approved equivalents. Courses used to satisfy this requirement do not apply to General Education.

Literacy Requirement:

See "Mathematics and Writing Requirements" in the University Catalog. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or better to receive WP credit. See the Class Schedule for the designated WP courses for each semester. You must pass ENGL 130 (or its equivalent) with a C- or better before you may register for a WP course.

Course Requirements for the Major: 49-74 units

Course Requirements for the Major with the Option in Physical Education Teacher Education: 97 units

The following courses, or their approved transfer equivalents, are required of all candidates for this degree. Additional required courses dependent upon a selected option or advising pattern are outlined following the major core program requirements.

Major Core Program: 22 units

Lower-Division Core: 8 units

2 courses required:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *

Upper-Division Core: 14 units

4 courses required:

KINE 320	Embodied Knowledge: Kinesiol	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.			
KINE 321	Motor Development & Behavior	3.0	FS
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			

Standard first aid and cardiopulmonary resuscitation (CPR) certification are also required.

Basic computer literacy skills are required. The requirement may be met through select college courses (e.g., CSCI 100, KINE 100, or UNIV 101) or through prior experience.

Major Option Course Requirements: 27-75 units

The following courses, or their approved transfer equivalents, are required dependent upon the option chosen. Students must select one of the following options for completion of the major course requirements.

The Option in Physical Education Teacher Education: 69-75 units

This option satisfies all requirements for subject matter competency in physical education and the single subject teaching credential program. Consult with a Physical Education Teacher Education (PETE) advisor early in order to determine your academic plan as courses follow a prescribed sequence.

Lower-Division Courses: 3 units

Select activity breadth courses with the prior approval of a PETE advisor.

3 courses selected from:

KINE 112A	Beginning Badminton	1.0	FS
KINE 112B	Intermediate Badminton	1.0	FS
KINE 116A	Beginning Aerobic Dance	1.0	FS
KINE 116B	Intermediate Aerobic Dance	1.0	FS
KINE 116C	Advanced Aerobic Dance	1.0	FS
KINE 117A	Bicycling	1.0	FS
KINE 118J	Intermediate Basketball: Men	1.0	FS
KINE 118V	Beginning Basketball: Women	1.0	FS
KINE 118W	Intermediate Basketball: Women	1.0	FS
KINE 120A	Beginning Bowling	1.0	FS
KINE 120B	Intermediate Bowling	1.0	FS
KINE 120C	Advanced Bowling	1.0	FS
KINE 129	Flag Football	1.0	FA
KINE 134A	Beginning Golf	1.0	FS
KINE 134B	Intermediate Golf	1.0	FS
KINE 136I	Beginning Gymnastics: Men	1.0	FS
KINE 136J	Intermediate Gymnastics: Men	1.0	FS
KINE 136V	Beginning Gymnastics: Women	1.0	FS
KINE 136W	Intermediate Gymnastics: Women	1.0	FS
KINE 141A	Beginning Jujitsu/Self-Defense	1.0	FS
KINE 141B	Intermed Jujitsu/Self-Defense	1.0	FS
KINE 142	Aikido	1.0	FS
KINE 143A	Beginning Karate	1.0	FS
KINE 143B	Intermediate Karate	1.0	FS
KINE 143C	Advanced Karate	1.0	FS
KINE 144A	Beginning TaeKwonDo	1.0	FS
KINE 144B	Intermediate TaeKwonDo	1.0	FS
KINE 144C	Advanced TaeKwonDo	1.0	FS
KINE 147I	Beginning Indoor Soccer: Men	1.0	FS
KINE 147J	Intermed Indoor Soccer: Men	1.0	FS
KINE 148V	Beginning Soccer: Women	1.0	FS
KINE 148W	Intermediate Soccer: Women	1.0	FS
KINE 149A	Beginning Slow-Pitch Softball	1.0	FS
KINE 150V	Beginning Softball: Women	1.0	SP
KINE 150W	Intermediate Softball: Women	1.0	SP
KINE 154A	Beginning Swimming	1.0	FS
KINE 154B	Intermediate Swimming	1.0	FS
Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, sidestroke, and elementary backstroke.			
KINE 154C	Advanced Swimming	1.0	FS
Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, side stroke, and elementary back stroke.			
KINE 156A	Beginning Tennis	1.0	FS
KINE 156B	Intermediate Tennis	1.0	FS
KINE 162A	Beginning Volleyball	1.0	FS
KINE 162B	Intermediate Volleyball	1.0	FS
KINE 164A	Beginning Water Polo	1.0	FS
KINE 164B	Intermediate Water Polo	1.0	FS
KINE 164K	Advanced Water Polo: Men	1.0	FA
KINE 166A	Beginning Weight Training	1.0	FS
KINE 166B	Intermediate Weight Training	1.0	FS
KINE 169	Yoga	1.0	Inq

Upper-Division Courses: 66 units

20 courses required:

EDTE 301	Democracy & Pub Schl in Amer	2.0	SMF
EDTE 302	Access & Equity in Education	3.0	FS
EDTE 530	Fundamentals of Teaching Prac	3.0	SMF
EDTE 531	Teaching with Technology	1.0	FS
EDTE 532	Literacy Development	3.0	SMF
EDTE 535	Teaching Practicum I	6.0	FS
Prerequisites: Admission to the Department of Education Single Subject Program and completion of Block One courses.			
EDTE 537	Apps for Democratic Education	3.0	FS
Prerequisites: Capstone course to be taken in the final semester of the program.			
EDTE 538	Teaching Practicum II	9.0	FS
Prerequisites: Successful completion of Practicum I (EDTE 535).			
ENGL 371	Principles of Language	3.0	FS *
ENGL 470	Second Language Acquisition	3.0	FS
Prerequisites: ENGL 371.			
HCSV 451	Hlth Ed for Secondary Tchrs	3.0	FS
KINE 305	Philosophy of School Based PE	3.0	FS
KINE 308	Dance/Rhythms/ Educ Gymnastics	3.0	FS
Prerequisites: Faculty permission.			
KINE 309	Develop Approp PE for Children	3.0	FS
KINE 312	Outdoor Education for Teachers	3.0	FS
KINE 315	Intro to Adapted Phys Act	3.0	FS
KINE 410	Develop Approp PE-Middle Sch	3.0	FS
Prerequisites: KINE 305, KINE 309.			
KINE 411	Assessment in Physical Educ	3.0	FS
Prerequisites: KINE 305, KINE 309, faculty permission.			
KINE 484	Develop Approp PE-High School	3.0	FS
Prerequisites: KINE 305, KINE 308, KINE 309, KINE 312, KINE 410, KINE 411.			
KINE 510	Sem in School Physical Educ	3.0	FS
Prerequisites: Faculty permission.			

Note: PSYC 355 may be substituted for KINE 321; EDTE 533 may be substituted for KINE 484; and EDTE 534 may be substituted for KINE 315. Advisor's permission is required for substitutions.

0-6 units selected from:

6 units of course work in any single non-English language. Note: This requirement may be waived for students with two years of high school language courses in a single language. Students are also reminded that the following courses are required for the Option in Physical Education Teacher Education: CMST 131 or CMST 132; POLS 155 or POLS 355.

Students interested in earning subject matter competency in physical education with intentions of entering credential programs other than the Physical Education Teacher Education Option must take an alternate set of courses in order to meet the required 120 units for the BA. See a PETE advisor as soon as possible to establish an academic contract.

Additional Requirements:

By the beginning of the junior year, at the time of admission to the credential program, students must have a cumulative GPA of 2.67, or a GPA of 2.75 for the last 60 units. Candidates must maintain a 3.0 average or better in EDTE 530 courses. KINE courses listed must be completed with a C- or better.

Optional Adapted Physical Education Specialist Credential: 20 units

In order to complete the specialist credential in adapted physical education, students must obtain or be working toward a credential that authorizes them to teach physical education. This credential allows future physical education teachers to instruct individuals with disabilities in the public schools. These courses may be taken in addition to the Option in Teacher Education program, but are not required for that option or degree.

7 courses required:

KINE 315	Intro to Adapted Phys Act	3.0	FS
KINE 351	Aquatics for Adaptive Instr	2.0	SP
Prerequisites: First Aid and CPR or faculty permission; WSI recommended.			
KINE 351 may be applied to the lower-division requirements.			
KINE 513	Prog for Phys/Neuro Disabil	3.0	SP
Prerequisites: KINE 315 or faculty permission.			
KINE 514	Prog Mental/Emot/Lrn Disabil	3.0	FS
Prerequisites: KINE 315 or faculty permission.			
KINE 515	Collaboration in Adapted PE	3.0	SP
Prerequisites: KINE 315 or faculty permission.			
KINE 516	Motor Assess Indvids w/Disabil	3.0	FA
Prerequisites: KINE 315 or faculty permission.			
KINE 617	Fieldwork Adapted Phys Educ	3.0	FS
Prerequisites: KINE 515, faculty permission.			

The Option in Movement Studies: 27-52 units

Option Core: 9-20 units

Lower-Division Activity Breadth Courses: 6-14 units

Complete six courses in at least five of the seven groups below:

Aquatics Group

KINE 351	Aquatics for Adaptive Instr	2.0	SP
Prerequisites: First Aid and CPR or faculty permission; WSI recommended.			
KINE 125	Beginning Scuba Diving	2.0	FS
Prerequisites: Ability to swim in deep water.			
KINE 154A	Beginning Swimming	1.0	FS
KINE 154B	Intermediate Swimming	1.0	FS
Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, sidestroke, and elementary backstroke.			
KINE 154C	Advanced Swimming	1.0	FS
Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, side stroke, and elementary back stroke.			
KINE 154E	Swimming: Individualized Prog	1.0	FS
KINE 164A	Beginning Water Polo	1.0	FS
KINE 164B	Intermediate Water Polo	1.0	FS

Dance, Tumbling, or Gymnastics Group

KINE 352	Introduction to Dance	3.0	FS *
KINE 113I	Beg Ballroom: Men	1.0	FS
KINE 113V	Beg Ballroom: Women	1.0	FS
KINE 114V	Int Ballroom: Men	1.0	FS
Prerequisites: KINE 113I.			
KINE 114W	Int Ballroom: Women	1.0	FS
Prerequisites: KINE 113V.			
KINE 136I	Beginning Gymnastics: Men	1.0	FS
KINE 136J	Intermediate Gymnastics: Men	1.0	FS
KINE 136V	Beginning Gymnastics: Women	1.0	FS
KINE 136W	Intermediate Gymnastics: Women	1.0	FS
KINE 160A	Beginning Tumbling	1.0	FS
KINE 160B	Intermediate Tumbling	1.0	FS

Individual or Dual Group

KINE 112A	Beginning Badminton	1.0	FS
KINE 112B	Intermediate Badminton	1.0	FS
KINE 120A	Beginning Bowling	1.0	FS
KINE 120B	Intermediate Bowling	1.0	FS
KINE 120C	Advanced Bowling	1.0	FS
KINE 134A	Beginning Golf	1.0	FS
KINE 134B	Intermediate Golf	1.0	FS
KINE 156A	Beginning Tennis	1.0	FS
KINE 156B	Intermediate Tennis	1.0	FS
KINE 156C	Advanced Tennis	1.0	FS

Outdoor Education/Recreation Group

KINE 111A	Orienteering	1.0	FS
KINE 117A	Bicycling	1.0	FS
KINE 119A	Cross-Country Skiing	1.0	FS
KINE 121	Backpacking	2.0	FS
KINE 123	Indoor Rock Climbing	1.0	FS
KINE 224	Mthd Tch Rock Climbing	3.0	FA
Prerequisites: KINE 123 or KINE 124 recommended.			

Note: KINE 224 is required for the Outdoor Education Pattern.

KINE 226	Meth of Tch Wilderness Living	4.0	FS
Prerequisites: KINE 121 recommended but not required.			

Note: KINE 226 is required for the Outdoor Education Pattern.

KINE 228	Meth of Tch Canoeing/Kayaking	3.0	FS
Prerequisites: KINE 226 (may be taken concurrently).			

Note: KINE 227 is required for the Outdoor Education Pattern.

Note: Students completing the Outdoor Education Pattern may use two of the following courses to fulfill requirements both for that pattern and for the Outdoor Education/Recreation group activity course requirements: KINE 224, KINE 226, or KINE 228.

Kinesiology and Exercise Physiology

Personal Defense or Combatives Group

KINE	141A	Beginning Jujitsu/Self-Defense	1.0	FS
KINE	141B	Intermed Jujitsu/Self-Defense	1.0	FS
KINE	142	Aikido	1.0	FS
KINE	143A	Beginning Karate	1.0	FS
KINE	143B	Intermediate Karate	1.0	FS
KINE	144A	Beginning TaeKwonDo	1.0	FS

Team Sports Group

KINE	118J	Intermediate Basketball: Men	1.0	FS
KINE	118V	Beginning Basketball: Women	1.0	FS
KINE	118W	Intermediate Basketball: Women	1.0	FS
KINE	129	Flag Football	1.0	FA
KINE	147I	Beginning Indoor Soccer: Men	1.0	FS
KINE	147J	Intermed Indoor Soccer: Men	1.0	FS
KINE	147V	Beginning Indoor Soccer: Women	1.0	FS
KINE	147W	Intermed Indoor Soccer: Women	1.0	FS
KINE	148I	Beginning Soccer: Men	1.0	FS
KINE	148J	Intermediate Soccer: Men	1.0	FS
KINE	148V	Beginning Soccer: Women	1.0	FS
KINE	148W	Intermediate Soccer: Women	1.0	FS
KINE	149A	Beginning Slow-Pitch Softball	1.0	FS
KINE	150V	Beginning Softball: Women	1.0	SP
KINE	150W	Intermediate Softball: Women	1.0	SP
KINE	162A	Beginning Volleyball	1.0	FS
KINE	162B	Intermediate Volleyball	1.0	FS
KINE	162C	Advanced Volleyball	1.0	FS
KINE	162K	Advanced Volleyball: Men	1.0	FS

Weight Training or Fitness Group

KINE	116A	Beginning Aerobic Dance	1.0	FS
KINE	159	Jogging	1.0	FS
KINE	166A	Beginning Weight Training	1.0	FS
KINE	166B	Intermediate Weight Training	1.0	FS
KINE	166V	Begin Weight Training: Women	1.0	FS
KINE	167A	Beginning Lifetime Fitness	1.0	FS
KINE	167B	Intermediate Lifetime Fitness	1.0	FS
KINE	167C	Advanced Lifetime Fitness	1.0	FS
KINE	169	Yoga	1.0	Inq

Upper-Division Courses: 3-6 units

2 courses required:

KINE	390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.				
KINE	489	Internship Seminar	3.0	FS
Prerequisites: At least junior standing and faculty permission.				

Note: KINE 489 is not required for students completing the Outdoor Education pattern.

Advising Pattern Course Requirements: 18-32 units

The following courses, or their approved transfer equivalents, are required depending upon the advising pattern chosen. Students must select one of the following advising patterns for completion of the major course requirements.

Adapted Physical Activity Pattern: 20-21 units

5 courses required:

KINE	315	Intro to Adapted Phys Act	3.0	FS
KINE	345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.				
KINE	351	Aquatics for Adaptive Instr	2.0	SP
Prerequisites: First Aid and CPR or faculty permission; WSI recommended.				
KINE	513	Prog for Phys/Neuro Disabil	3.0	SP
Prerequisites: KINE 315 or faculty permission.				
KINE	514	Prog Mental/Emot/Lrn Disabil	3.0	FS
Prerequisites: KINE 315 or faculty permission.				

2 courses selected from:

KINE	316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.				
KINE	381	Recondition Athletic Injuries	3.0	SP
Prerequisites: KINE 316; a course in anatomy is recommended.				
KINE	485	Seminar in Sports Medicine	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100 or faculty permission.				
KINE	515	Collaboration in Adapted PE	3.0	SP
Prerequisites: KINE 315 or faculty permission.				
KINE	516	Motor Assess Indvids w/Disabil	3.0	FA
Prerequisites: KINE 315 or faculty permission.				
RECR	464	Therapeutic Recr Techniques	3.0	FS
Prerequisites: RECR 260 or faculty permission.				
RECR	466	Program Management in TR	3.0	FS
Prerequisites: RECR 260; RECR 462; RECR 464; or faculty permission.				

Coaching and Administration Pattern: 24-25 units

Students wishing to pursue a career in coaching with any degree should consult a Kinesiology advisor. The California Interscholastic Federation (CIF) requires individuals who are not kinesiology majors to acquire coaching certification. CIF has approved this pattern, and individuals who satisfactorily complete the program are automatically qualified to coach. See your advisor to discuss career plans and appropriate selection of courses.

4 courses required:

KINE	314	Psychology of Coaching	3.0	FS
KINE	345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.				
KINE	411	Assessment in Physical Educ	3.0	FS
Prerequisites: KINE 305, KINE 309, faculty permission.				
KINE	430	Adm/Mgmt of Sport/Fit Progs	3.0	FS
Prerequisites: Basic computer literacy skills.				

2 courses required:

KINE	331	Principles of Team Sports	3.0	FS
Prerequisites: Basic computer literacy skills.				
KINE	332	Prin of Individual Sports	3.0	FS
Prerequisites: Basic computer literacy skills.				

Note: Either KINE 331 or KINE 332 may be taken twice to meet this requirement.

2 courses selected from:

KINE	316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.				
KINE	346	Sport and Society	3.0	Inq
This course is also offered as SOCI 346.				
KINE	347	Sport/Game/Play Non-West Cult	3.0	FS * GC
KINE	492	Social Psy of Sport/Play/Games	3.0	FS
This course is also offered as PSYC 492.				
KINE	524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.				
KINE	554	Theory/Prac of Play & Games	3.0	SP

Fitness and Wellness Pattern: 18-19 units

3 courses required:

KINE	345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.				
KINE	411	Assessment in Physical Educ	3.0	FS
Prerequisites: KINE 305, KINE 309, faculty permission.				
KINE	480	Ex Testing and Prescription	3.0	FS
Prerequisites: KINE 323.				

3 courses selected from:

KINE	315	Intro to Adapted Phys Act	3.0	FS
KINE	316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.				
KINE	386	Sports Epidemiology	3.0	FS
Prerequisites: Basic computer skills or faculty permission.				
KINE	482	Exercise Pathophysiology	3.0	FS
Prerequisites: Bachelor's Degree in any discipline or KINE 322, KINE 323, KINE 480 or faculty permission.				
KINE	485	Seminar in Sports Medicine	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100 or faculty permission.				
KINE	492	Social Psy of Sport/Play/Games	3.0	FS
This course is also offered as PSYC 492.				
KINE	586	Anat/Patho Asp of Sports Inj	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 322.				
KINE	588	Sem Sport/Phys Act Health Care	3.0	FS
Prerequisites: KINE 317, KINE 381.				

Outdoor Education Pattern: 26-32 units

Students wishing to pursue a career in outdoor education with any degree should consult with the Coordinator of the Outdoor Education program. Note: Wilderness 1st Responder certification is a requirement for graduation with this degree. Please see the Coordinator of the Outdoor Education program for a list of accepted WFR providers.

Note: Students completing this pattern may use two of the following required courses in the Outdoor Education/Recreation group: KINE 224, KINE 226, or KINE 228.

8 courses required:

KINE	224	Mthd Tch Rock Climbing	3.0	FA
Prerequisites: KINE 123 or KINE 124 recommended.				
KINE	226	Meth of Tch Wilderness Living	4.0	FS
Prerequisites: KINE 121 recommended but not required.				
KINE	227	Winter and the Mountain	4.0	SP
Prerequisites: KINE 226 or equivalent.				
KINE	228	Meth of Tch Canoeing/Kayaking	3.0	FS
Prerequisites: KINE 226 (may be taken concurrently).				
KINE	460	Foundations of Outdoor Educ	3.0	FS

KINE 470	Practicum in Outdoor Education	9.0	SM
Prerequisites: KINE 226 and one of the following KINE 224, KINE 227, KINE 228 or equivalent.			
KINE 564	Facilitating Adventure Exp	3.0	FS
Prerequisites: KINE 222 recommended.			
RECR 240	Outdoor Recreation Systems	3.0	FS
Prerequisites: Concurrent enrollment in or prior completion of RECR 200, or faculty permission.			

Electives Requirement:

To complete the total units required for the bachelor's degree, select additional elective courses from the total University offerings. You should consult with an advisor regarding the selection of courses which will provide breadth to your University experience and possibly apply to a supportive second major or minor.

Grading Requirement:

All courses taken to fulfill major course requirements must be taken for a letter grade except those courses specified by the department as Credit/No Credit grading only.

Advising Requirement:

Advising is mandatory for all majors in this degree program. Consult your undergraduate advisor for specific information.

Honors in the Major

Honors in the Major is a program of independent work in your major. It requires 6 units of honors course work completed over two semesters.

The Honors in the Major program allows you to work closely with a faculty mentor in your area of interest on an original performance or research project. This year-long collaboration allows you to work in your field at a professional level and culminates in a public presentation of your work. Students sometimes take their projects beyond the University for submission in professional journals, presentation at conferences, or academic competition. Such experience is valuable for graduate school and professional life. Your honors work will be recognized at your graduation, on your permanent transcripts, and on your diploma. It is often accompanied by letters of commendation from your mentor in the department or the department chair.

Some common features of Honors in the Major program are

1. You must take 6 units of Honors in the Major course work. All 6 units are honors classes (marked by a suffix of H), and at least 3 of these units are independent study (399H, 499H, 599H) as specified by your department. You must complete each class with a minimum grade of B.
2. You must have completed 9 units of upper-division course work or 21 overall units in your major before you can be admitted to Honors in the Major. Check the requirements for your major carefully, as there may be specific courses that must be included in these units.
3. Your cumulative GPA should be at least 3.5 or within the top 5% of majors in your department.
4. Your GPA in your major should be at least 3.5 or within the top 5% of majors in your department.
5. Most students apply for or are invited to participate in Honors in the Major during the second semester of their junior year. Then they complete the 6 units of course work over the two semesters of their senior year.
6. Your honors work culminates with a public presentation of your honors project.

While Honors in the Major is part of the Honors Program, each department administers its own program. Please contact your major department or major advisor to apply.

The Bachelor of Science in Exercise Physiology

Total Course Requirements for the Bachelor's Degree: 120 units

See "Requirements for the Bachelor's Degree" in the *University Catalog* for complete details on general degree requirements. A minimum of 40 units, including those required for the major, must be upper division.

A suggested Major Academic Plan (MAP) has been prepared to help students meet all graduation requirements within four years. Please request a plan from your major advisor or view it and other current advising information at <http://em.csuchico.edu/aap/ProgramSearch>.

General Education Requirements: 48 units

See "General Education Requirements" in the University Catalog and the Class Schedule for the most current information on General Education Requirements and course offerings. The course requirements marked below with an asterisk (*) may also be applied toward General Education.

Diversity Course Requirements: 6 units

See "Diversity Requirement" in the University Catalog. Most courses taken to satisfy these requirements may also apply to General Education.

U.S. History, Constitution, and American Ideals: 6 units

See "U.S. History, Constitution, and American Ideals" under "Bachelor's Degree Requirements". This requirement is normally fulfilled by completing HIST 130 and POLS 155 or approved equivalents. Courses used to satisfy this requirement do not apply to General Education.

Literacy Requirement:

See "Mathematics and Writing Requirements" in the University Catalog. Writing proficiency in the major is a graduation requirement and may be demonstrated through satisfactory completion of a course in your major which has been designated as the Writing Proficiency (WP) course for the semester in which you take the course. Students who earn below a C- are required to repeat the course and earn a C- or better to receive WP credit. See the Class Schedule for the designated WP courses for each semester. You must pass ENGL 130 (or its equivalent) with a C- or better before you may register for a WP course.

Course Requirements for the Major: 71-72 units

Completion of the following courses, or their approved transfer equivalents, are required of all candidates for this degree.

Lower-Division Requirements: 23 units

6 courses required:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *
CHEM 107	Gen Chem for Applied Sciences	4.0	FS *
Prerequisites: Intermediate Algebra.			
CHEM 108	Organic Chem for Applied Sci	4.0	FS
Prerequisites: CHEM 107 or CHEM 111 or equivalent.			
KINE 100	Computer Application Phys Educ	3.0	FS
PHYS 202A	General Physics	4.0	FS *
Prerequisites: High school physics or faculty permission. High school trigonometry and second-year high school algebra or equivalent (MATH 051 and MATH 118 at CSU, Chico).			

Mathematics Requirement: 3 units

1 course selected from:

MATH 105	Statistics	3.0	FS *
Prerequisites: Completion of ELM requirement.			
MATH 315	Statistical Methods I	3.0	FA
Prerequisites: MATH 105 or MATH 350 or faculty permission.			

Upper-Division Requirements: 45-46 units

1 course selected from:

BIOL 302	Evolution	3.0	SP *
Prerequisites: BIOL 101 or BIOL 108 or equivalent.			
BIOL 303	Human Genetics	3.0	FS *
Prerequisites: One biological sciences course.			
BIOL 322	Science and Human Values	3.0	SP *
Prerequisites: BIOL 101 or BIOL 108. This course is also offered as PHIL 322.			
BIOL 345	Biology of Cancer	3.0	FS *
Prerequisites: One lower-division course in Biological Sciences.			

11 courses required:

CHEM 350	Introductory Biochemistry	3.0	FS
Prerequisites: CHEM 108.			
KINE 320	Embodied Knowledge: Kinesiol	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.			
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			
KINE 386	Sports Epidemiology	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			
KINE 390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.			
KINE 480	Ex Testing and Prescription	3.0	FS
Prerequisites: KINE 323.			
KINE 524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.			
KINE 482	Exercise Pathophysiology	3.0	FS
Prerequisites: Bachelor's Degree in any discipline or KINE 322, KINE 323, KINE 480 or faculty permission.			
KINE 485	Seminar in Sports Medicine	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100 or faculty permission.			
NFSC 303	Nutrition/Physical Fitness	3.0	FS *
Prerequisites: One lower-division course in biological sciences.			

2 courses selected from:

KINE 315	Intro to Adapted Phys Act	3.0	FS
KINE 316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.			

Kinesiology and Exercise Physiology

KINE 324	Ex Phys: Metabolism	4.0	SP
Prerequisites: BIOL 104, KINE 323.			
PHYS 202B	General Physics	4.0	FS
Prerequisites: PHYS 202A.			

Electives Requirement:

To complete the total units required for the bachelor's degree, select additional elective courses from the total University offerings. You should consult with an advisor regarding the selection of courses which will provide breadth to your University experience and possibly apply to a supportive second major or minor.

Grading Requirement:

All courses taken to fulfill major course requirements must be taken for a letter grade except those courses specified by the department as Credit/No Credit grading only.

Advising Requirement:

Advising is mandatory for all majors in this degree program. Consult your undergraduate advisor for specific information.

The Minor in Exercise Science

Course Requirements for the Minor: 22-24 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

Departmental approval is required before you begin course work for this minor. Approval can be obtained by providing written notice of your intention to declare this minor to the department office.

4 courses required:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			

2 courses selected from:

KINE 316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.			
KINE 324	Ex Phys: Metabolism	4.0	SP
Prerequisites: BIOL 104, KINE 323.			
KINE 386	Sports Epidemiology	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			
KINE 390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.			
KINE 480	Ex Testing and Prescription	3.0	FS
Prerequisites: KINE 323.			
KINE 524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.			
KINE 586	Anat/Patho Asp of Sports Inj	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 322.			
KINE 588	Sem Sport/Phys Act Health Care	3.0	FS
Prerequisites: KINE 317, KINE 381.			

Note: An approved elective in exercise science may be substituted for the above with the prior permission of the advisor.

The Minor in Coaching

Course Requirements for the Minor: 31-32 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

5 courses required:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			
KINE 430	Adm/Mgmt of Sport/Fit Progs	3.0	FS
Prerequisites: Basic computer literacy skills.			

1 course selected from:

KINE 331	Principles of Team Sports	3.0	FS
Prerequisites: Basic computer literacy skills.			
KINE 332	Prin of Individual Sports	3.0	FS
Prerequisites: Basic computer literacy skills.			

1 course selected from:

KINE 321	Motor Development & Behavior	3.0	FS
KINE 345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			

2 courses selected from:

KINE 314	Psychology of Coaching	3.0	FS
KINE 316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.			
KINE 346	Sport and Society	3.0	Inq
This course is also offered as SOCI 346.			
KINE 347	Sport/Game/Play Non-West Cult	3.0	FS * GC
KINE 390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.			
KINE 489	Internship Seminar	3.0	FS
Prerequisites: At least junior standing and faculty permission.			
KINE 492	Social Psy of Sport/Play/Games	3.0	FS
This course is also offered as PSYC 492.			
KINE 524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.			
KINE 554	Theory/Prac of Play & Games	3.0	SP

Written Notice

Departmental approval is required before you begin course work for this minor. Approval can be obtained by providing written notice of your intention to declare this minor to the department office.

The Minor in Physical Education

Course Requirements for the Minor: 27-28 units

The following courses, or their approved transfer equivalents, are required of all candidates for this minor.

Departmental approval is required before you begin course work for this minor. consult with an academic advisor to plan your program carefully. For example, this minor may serve as part of a supplementary authorization to teach physical education.

3 courses required:

BIOL 104	Human Physiology	4.0	FS *
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			

2 courses selected from:

KINE 315	Intro to Adapted Phys Act	3.0	FS
KINE 320	Embodied Knowledge: Kinesiol	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.			
KINE 321	Motor Development & Behavior	3.0	FS
KINE 345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			

3 courses selected from:

KINE 302	Found Childhood Phys Educ	3.0	FS
OR (the following course may be substituted for the above)			
KINE 309	Develop Approp PE for Children	3.0	FS
KINE 305	Philosophy of School Based PE	3.0	FS
KINE 314	Psychology of Coaching	3.0	FS

OR (the following course may be substituted for the above)

KINE 492	Social Psy of Sport/Play/Games	3.0	FS
This course is also offered as PSYC 492.			
KINE 315	Intro to Adapted Phys Act	3.0	FS
KINE 316	Prin Spt Injury Mgt	4.0	FS
Prerequisites: Basic First Aid or equivalent course, faculty permission.			
KINE 320	Embodied Knowledge: Kinesiol	3.0	FS WP
Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.			
KINE 321	Motor Development & Behavior	3.0	FS
KINE 331	Principles of Team Sports	3.0	FS
Prerequisites: Basic computer literacy skills.			
KINE 332	Prin of Individual Sports	3.0	FS
Prerequisites: Basic computer literacy skills.			
KINE 345	Motor Learning/HumPerformance	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			
KINE 346	Sport and Society	3.0	Inq
This course is also offered as SOCI 346.			
KINE 386	Sports Epidemiology	3.0	FS
Prerequisites: Basic computer skills or faculty permission.			
KINE 390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.			
KINE 410	Develop Approp PE-Middle Sch	3.0	FS
Prerequisites: KINE 305, KINE 309.			

KINE 411	Assessment in Physical Educ	3.0	FS
Prerequisites: KINE 305, KINE 309, faculty permission.			
KINE 430	Adm/Mgmt of Sport/Fit Progs	3.0	FS
Prerequisites: Basic computer literacy skills.			
KINE 480	Ex Testing and Prescription	3.0	FS
Prerequisites: KINE 323.			
KINE 524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.			

Note: The following courses cannot be applied in more than one category above: KINE 315, KINE 320, KINE 321, and KINE 345.

Written Notice

Departmental approval is required before you begin course work for this minor. Approval can be obtained by providing written notice of your intention to declare this minor to the department office.

The Certificate in Outdoor Education

Course Requirements for the Certificate: 25-35 units

The following courses, or their approved transfer equivalents, are required of all candidates for this certificate.

A grade point average of 2.5 or better must be earned for courses required for the certificate, with at least a C earned in each course. Wilderness 1st Responder certification is required for this certificate.

6 courses required:

KINE 226	Meth of Tch Wilderness Living	4.0	FS
Prerequisites: KINE 121 recommended but not required.			
KINE 460	Foundations of Outdoor Educ	3.0	FS
KINE 564	Facilitating Adventure Exp	3.0	FS
Prerequisites: KINE 222 recommended.			
RECR 301	Leadership/Supervision in Recr	3.0	FS
Prerequisites: Concurrent enrollment in or prior completion of RECR 200, or faculty permission.			
RECR 428	Recr Law & Legal Principles	3.0	FS
Prerequisites: RECR 200; concurrent enrollment in or prior completion of RECR 220, RECR 240, RECR 250, or RECR 260; or faculty permission.			
RECR 448	Mthds/Materials for Environ Ed	3.0	FS
Prerequisites: BIOL 342 or GEOS 130 or equivalent.			
This course is also offered as EDCl 448.			

1 course selected from:

KINE 315	Intro to Adapted Phys Act	3.0	FS
RECR 260	Intro to TR & Inclusive Recr	3.0	FS
Prerequisites: Concurrent enrollment in or prior completion of RECR 200 or faculty permission.			

1 course selected from:

KINE 224	Mthd Tch Rock Climbing	3.0	FA
Prerequisites: KINE 123 or KINE 124 recommended.			
KINE 227	Winter and the Mountain	4.0	SP
Prerequisites: KINE 226 or equivalent.			
KINE 228	Meth of Tch Canoeing/Kayaking	3.0	FS
Prerequisites: KINE 226 (may be taken concurrently).			

0-9 units selected from:

KINE 470	Practicum in Outdoor Education	9.0	SM
Prerequisites: KINE 226 and one of the following KINE 224, KINE 227, KINE 228 or equivalent.			

The Certificate in Sport and Human Performance

Course Requirements for the Certificate: 37-40 units

The following courses, or their approved transfer equivalents, are required of all candidates for this certificate.

Candidates for the certificate must be accepted by the University, but it is not necessary to complete the requirements for a bachelor's degree in order to receive the Certificate in Sport and Human Performance. An overall grade point average of 2.5 is required for the certificate.

7 courses required:

BIOL 103	Human Anatomy	4.0	FS *
BIOL 104	Human Physiology	4.0	FS *
KINE 322	Biomechanics	4.0	FS
Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.			
KINE 323	Physiology of Exercise	4.0	FS
Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.			
KINE 390	Prin of Strngth & Conditioning	3.0	FS
Prerequisites: KINE 322, KINE 323, or faculty permission.			
KINE 480	Ex Testing and Prescription	3.0	FS
Prerequisites: KINE 323.			
KINE 524	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy.			

1 course selected from:

KINE 411	Assessment in Physical Educ	3.0	FS
Prerequisites: KINE 305, KINE 309, faculty permission.			
MATH 105	Statistics	3.0	FS *
Prerequisites: Completion of ELM requirement.			

1 course selected from:

KINE 100	Computer Application Phys Educ	3.0	FS
KINE 318	3-D Desktop Video Applications	3.0	FS

6-9 units selected from:

Any 300-level or higher Kinesiology (KINE) courses, selected in consultation with, and having the prior approval of, the certificate coordinator. One upper-division course from another department may be substituted with the coordinator's approval.

The Single Subject Matter Preparation Program in Physical Education

Course requirements for Single Subject Matter Preparation Program, 107 units, in conjunction with a professional education program, leads to a Single Subject Teaching Credential.

The Option in Physical Education Teacher Education fulfills all requirements for the Single Subject Credential in Physical Education.

Your departmental credential advisor is responsible for verifying that the subject matter preparation program has been completed. If you are interested in obtaining a teaching credential, confer with the appropriate credential advisor early in your University career. Department credential advisors can assist you in planning an educational program that meets both major and credential requirements.

Subject matter preparation requirements are governed by legislative action and approval of the California Commission on Teacher Credentialing. Requirements may change between catalogs. Please consult with your departmental credential advisor for current information.

The Master of Arts in Kinesiology

Objectives:

The Department of Kinesiology at CSU, Chico offers the Master of Arts degree in Kinesiology. The objectives of our graduate program are to develop skills, knowledge, and research experience so that students can take their place in the community as leaders, teachers, and researchers.

Course Requirements for the Master's Degree: 30 units

Continuous enrollment is required. A maximum of 9 semester units of transfer and/or CSU Chico Open University course work may be applied toward the degree.

Graduate Time Limit:

All requirements for the degree are to be completed within five years of the end of the semester of enrollment in the oldest course applied toward the degree. See "Graduate Education" in the University Catalog for complete details on general degree requirements.

Prerequisites for Admission to Conditionally Classified Status:

1. Satisfactory grade point average as specified in "Admission to Master's Degree Programs" in the University Catalog.
2. Approval by the department and the Office of Graduate Studies.
3. A major or minor in Kinesiology from an accredited institution, or an equivalent approved by the Office of Graduate Studies and the Graduate Coordinator or, in absence of a degree in Physical Education, completion of the following (or their equivalent): KINE 322 (Biomechanics), KINE 323 (Physiology of Exercise); and two additional courses to be determined by the Graduate Coordinator. These courses must be satisfactorily completed before enrollment in graduate-level courses.
4. A minimum grade point average of 3.0 in the last 60 units of undergraduate work.
5. A score of 1000 on the Graduate Record Examination based on the verbal and quantitative scales.
6. Evidence of computer literacy by completion of KINE 100 or an equivalent course or by examination.
7. Two letters of recommendation.
8. A letter of intent.

Prerequisites for Admission to Classified Status:

In addition to any requirements listed above:

A score of 1275 on the Graduate Record Examination, and no score on any section (verbal, quantitative, or analytical) below 425 (for direct admission to Classified Status).

Advancement to Candidacy:

In addition to any requirements listed above:

1. Completion at the University of the following 600-level courses:

KINE 600	Seminar in Physical Education	3.0	FS
KINE 601	Stat Meth in Kinesiology Res	3.0	FS

 Prerequisites: KINE 484 or faculty permission.

KINE 602	Research Design in Kinesiology	3.0	FS
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Note: KINE 600 should be taken in the first semester. KINE 601 should be taken before KINE 602.
2. Formation of the graduate advisory committee.
3. Development of an approved program of course work.
4. Approval of selection of a topic for the thesis or project proposal.

Requirements for the MA in Kinesiology:

Completion of all requirements as established by the Department graduate committee, the graduate advisory committee, and the Office of Graduate Studies, to include:

1. Completion of an approved program consisting of 30 units of 400/500/600-level courses as follows:
 - (a) At least 18 units must be in the discipline of Kinesiology, including the following core courses for all students:

KINE 600	Seminar in Physical Education	3.0	FS
KINE 601	Stat Meth in Kinesiology Res	3.0	FS

 Prerequisites: KINE 484 or faculty permission.

KINE 602	Research Design in Kinesiology	3.0	FS
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Note: KINE 600 should be taken in the first semester of enrollment. KINE 601 should be taken before KINE 602.
 - (b) At least 21 of the units required for the degree must be in 600-level courses.
 - (c) In addition to core courses required above, completion of requirements for one of the following courses of study (consult the Graduate Coordinator for specific courses required):
 - (1) Adapted Physical Education
 - (2) Athletic Training Education
 - (3) Biomechanics
 - (4) Exercise Physiology
 - (5) Pedagogy
 - (d) At least 9 units of the program must be completed after advancement to candidacy.
 - (e) Not more than 9 semester units of transfer and/or extension credit (correspondence courses and U.C. extension course work are not acceptable). Open University units are part of the 9-unit maximum.
 - (f) Not more than a total of 10 units of Independent Study (697) and Master's Thesis (699T) or Master's Project (699P); not more than 6 units of Master's Thesis (699T) or 3 units of Master's Project (699P).

2. Completion and final approval of one of the following plans:

(a) Thesis or Project Plan:

Students will select 6 units of Master's Thesis (KINE 699T) or 3 units of Master's Project (KINE 699P), and will complete a thesis or project as specified by the graduate advisory committee, the Graduate Coordinator, and the departmental graduate committee. An oral defense of the thesis or project is required.

(b) Comprehensive Examination Plan:

In place of KINE 699T or KINE 699P, students will substitute additional units of 400/500/600-level course work that fits the curriculum track they have chosen to bring the total units for the degree to 30. In addition, they will satisfactorily complete a written comprehensive examination on the program of study.

3. Approval by the departmental graduate committee, the Graduate Coordinator, and the Graduate Coordinators Committee on behalf of the faculty of the University.

Option in Athletic Training Education

In addition to the admission requirements above, applicants to the Athletic Training Education Option must meet the following prerequisites:

Eligibility for the NATABOC Certification Exam

Eligibility requires:

1. Completion of an undergraduate degree.
2. Completion of required course work, including
 - (a) human anatomy (BIOL 103)
 - (b) human physiology (BIOL 104)
 - (c) beginning athletic training (KINE 316)
 - (d) advanced athletic training (KINE 317)
 - (e) human nutrition (NFSC 303 or NFSC 240)
 - (f) exercise physiology (KINE 323)

(g) biomechanics (KINE 322)

(h) biomechanical analysis (KINE 524)

3. Clinical hours: (a) Curriculum candidates must have completed an entry-level program accredited by CAAHEP (Commission on Accreditation of Allied Health Education Programs) in no less than two calendar years. The program must include 800 hours of athletic training experience under the supervision of a NATABOC-certified athletic trainer. The athletic training experiences must be obtained from athletic training settings associated with the accredited curriculum.

(b) Internship candidates must present documentation of having at least 1500 hours of athletic training experience under the supervision of a NATABOC-certified athletic trainer. The applicant must show proof that the athletic training experience was gained over a period of at least two calendar years.

Admission to the Athletic Training Education Option:

Admission to this option will be limited. In addition to the requirements for all applicants to the MA in Kinesiology, applicants to this option must:

1. Complete a supplemental application.
2. Submit three letters of recommendation.
3. Have a personal interview with the Athletic Training Option Selection Committee.

7 courses required:

KINE 485	Seminar in Sports Medicine	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100 or faculty permission.			
KINE 586	Anat/Patho Asp of Sports Inj	3.0	FS
Prerequisites: BIOL 103, BIOL 104, KINE 322.			
KINE 588	Sem Sport/Phys Act Health Care	3.0	FS
Prerequisites: KINE 317, KINE 381.			
KINE 600	Seminar in Physical Education	3.0	FS
KINE 601	Stat Meth in Kinesiology Res	3.0	FS
Prerequisites: KINE 484 or faculty permission.			
KINE 602	Research Design in Kinesiology	3.0	FS
KINE 679	Sem Biological Found Phys Educ	3.0	FA
Prerequisites: KINE 602, faculty permission.			

9 units selected from:

KINE 624	Biomechanical Analysis	3.0	FS
Prerequisites: KINE 322 and basic computer literacy, faculty permission.			
KINE 625	Biomechanics Sports Technique	3.0	SP
KINE 661	Current Trends/Probs Phys Ed	3.0	FS
KINE 678	Exercise and Aging	3.0	FS
KINE 680	Sem in Environ Physiology	3.0	SP
Prerequisites: KINE 323.			
KINE 681	Ex Mgmt - Chronic Disabilities	3.0	Inq
Prerequisites: KINE 322, KINE 323, KINE 480, and faculty permission.			
KINE 682	Exercise Cardiology	3.0	Inq
Prerequisites: KINE 323, KINE 480, KINE 482, and faculty permission.			
KINE 697	Independent Study	1.0-3.0	FS

Note: Supervised clinical assignments may be used as independent study credit, not to exceed 10 units.

KINE 699P	Master's Project	1.0-6.0	FS
Prerequisites: See the department secretary.			
KINE 699T	Master's Thesis	1.0-6.0	FS
Prerequisites: See the department secretary.			

OR any 400/500/600-level University course with the approval of the option advisor.

Graduate Requirement in Writing Proficiency:

Writing proficiency is a graduation requirement.

Kinesiology majors will demonstrate their writing competence through the successful completion (grade of B or better) of KINE 600 (Seminar in Physical Education).

Graduate Grading Requirements:

All courses in the major (with the exceptions of Independent Study - 697, Comprehensive Examination - 696, Master's Project - 699P, and Master's Thesis - 699T) must be taken for a letter grade, except those courses specified by the department as ABC/No Credit (400/500-level courses), AB/No Credit (600-level courses), or Credit/No Credit grading only. A maximum of 10 units combined of ABC/No Credit, AB/No Credit, and Credit/No Credit grades may be used on the approved program (including 697, 696, 699P, 699T and courses outside the major). While grading standards are determined by individual programs and instructors, it is also the policy of the University that unsatisfactory grades may be given when work fails to reflect achievement of the high standards, including high writing standards, expected of students pursuing graduate study.

Students must maintain a minimum 3.0 grade point average in each of the following three categories: all course work taken at any accredited institution subsequent to admission to the master's program; all course work taken at CSU, Chico subsequent to admission to the program; and all courses on the approved master's degree program.

Graduate Advising Requirement:

Students should consult the Graduate Coordinator for advisor assignment. No later than the end of the first semester of graduate study, students must identify a graduate faculty member who agrees to serve as their graduate advisor. This advisor must be in the student's area of specialization.

The Faculty

- John L. Azevedo Jr**, 1999, Professor, PhD, UC Berkeley.
- Craig A. Buschner**, 1989, Professor, EdD, Oklahoma State U.
- Traci M. Ciapponi**, 1999, Assist Professor, EdD, U Virginia.
- Reid Cross**, 2001, Assoc Professor, EdD, U No Colorado.
- Thomas D. Fahey**, 1982, Professor, EdD, UC Berkeley.
- Cathrine Himberg**, 1998, Professor, PhD, Virginia Tech.
- ChengTu Hsieh**, 2008, Assist Professor, PhD, U No Colorado.
- Jackie L. Hudson**, 1994, Professor, PhD, Temple U.
- Linda A. Keeler**, 2007, Assist Professor, EdD, West Virginia U.
- Duane V. Knudson**, 1997, Chair, Professor, PhD, U Wisconsin.
- Donald E. Lytle**, 1968, Professor, PhD, US International U.
- Rebecca K. Lytle**, 1999, Assoc Professor, PhD, Oregon State U.
- Jacqueline Medina**, 2006, Assist Professor, EdD, U No Colorado.
- Kevin G. Patton**, 2008, Assist Professor, EdD, U Massachusetts.
- Scott O. Roberts**, 2001, Assoc Professor, PhD, U New Mexico.
- Charles D. Scott**, 1972, Professor, EdD, Columbia U.
- Patricia A C. Smiley**, 1974, Professor, EdD, Nova SE U.
- George D. Swanson**, 1989, Professor, PhD, Stanford U.
- Teri A. Todd**, 2007, Assist Professor, PhD, McGill U.
- Joshua M. Trout**, 2003, Assist Professor, PhD, U Illinois.

Kinesiology Course Offerings

The following letter coding is used to differentiate activity courses.

Beginning: A (co-ed), I (men only), V (women only)

Intermediate: B (co-ed), J (men only), W (women only)

Advanced: C (co-ed), K (men only), X (women only)

Please see the section on "Course Description Symbols and Terms" in the University Catalog for an explanation of course description terminology and symbols, the course numbering system, and course credit units. All courses are lecture and discussion and employ letter grading unless otherwise stated. Some prerequisites may be waived with faculty permission. Many syllabi are available on the Chico Web.

KINE 100 Computer Application to Physical Education 3.0 Fa/Spr

The legal, ethical, social, and economic implications of computer usage; basic operations, terminology and system components; and the use of representative spreadsheet, telecommunication, and networking programs. Special emphasis is placed on developing and reviewing applications unique to physical education. 2.0 hours activity, 2.0 hours lecture. (006875)

KINE 101 Safety Instruction in Physical Education 1.0 Fa/Spr

Red Cross multimedia certification and accident procedures for school settings. 1.0 hours clinical. (006641)

KINE 102 Beginning Archery 1.0 Fa/Spr

This course covers the history, equipment care, techniques and safe development of archery skills. 2.0 hours activity. You may take this course more than once for a maximum of 2.0 units. (020449)

KINE 110 Physical Fitness: A Way of Life 3.0 Fa/Spr

Students participate in and monitor the results of a training program in swimming, running, weight training, cycling, or aerobics. Lectures explore the body's response to exercise and how to best exercise. Information and guidelines on how to begin or maintain a program of healthy and enjoyable exercise are presented. Topics discussed include the values of exercise, the body's responses to exercise and training, fitness assessment, exercise prescription, exercise and the environment, exercise for special populations, and sports nutrition. 2.0 hours activity, 2.0 hours lecture. This is an approved General Education course. (006967)

KINE 111A Orienteering 1.0 Fa/Spr

Basic understanding of topographic maps and the compass, combined with orienteering races. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. ABC/no credit grading only. (006646)

KINE 112A Beginning Badminton 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006647)

KINE 112B Intermediate Badminton 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006648)

KINE 113I Beginning Ballroom 1.0 Fa/Spr

The ballroom-dance sequence covers the range of contemporary social or ballroom dancing in Western culture. Beginning ballroom introduces the basic techniques of Waltz, Foxtrot, Swing, Samba, Rhumba, and Tango. For men only. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (002467)

KINE 113V Beginning Ballroom 1.0 Fa/Spr

The ballroom-dance sequence covers the range of contemporary social or ballroom dancing in Western culture. Beginning ballroom introduces the basic techniques of Waltz, Foxtrot, Swing, Samba, Rhumba, and Tango. For women only. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (002468)

KINE 114V Intermediate Ballroom 1.0 Fa/Spr

Prerequisites: KINE 113I.

Intermediate ballroom builds upon the foundation of Beginning Ballroom. More sophisticated, modern, and complicated steps and dances are studied and mastered in a practical setting. For men only. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (002469)

KINE 114W Intermediate Ballroom 1.0 Fa/Spr

Prerequisites: KINE 113V.

Intermediate ballroom builds upon the foundation of Beginning Ballroom. More sophisticated, modern, and complicated steps and dances are studied and mastered in a practical setting. For women only. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (002470)

KINE 115 African and Afro-Haitian Dance 1.0 Fa/Spr

Through dance, song, reading, and discussion, students experience the rich cultural traditions of West Africa and the island of Haiti, where African traditions have evolved and flourished in a "New World" setting for 300 years. Both dance forms challenge the strength and athleticism of the body. The African dances are high energy and polyrhythmic, with fast footwork, expressive and sweeping movements and free use of the back, head, shoulders, and pelvis. Haitian dance mixes African roots with indigenous, Spanish, and French colonial influences to create a unique form emphasizing spinal waves and torso, hip, and shoulder movements over rhythmic foot patterns. 2.0 hours field studies. This course is also offered as AFRI 115. (000145)

KINE 116A Beginning Aerobic Dance 1.0 Fa/Spr

Aerobic fitness through dance. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006658)

KINE 116B Intermediate Aerobic Dance 1.0 Fa/Spr

Aerobic fitness through dance. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006659)

KINE 116C Advanced Aerobic Dance 1.0 Fa/Spr

Aerobic fitness through dance. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006660)

KINE 117A Bicycling 1.0 Fa/Spr

Techniques of bicycling. Knowledge and understanding of the methods related to repair and maintenance of either the racing and/or touring bikes combined with short touring trips. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006663)

KINE 118J Intermediate Basketball: Men 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006666)

KINE 118V Beginning Basketball: Women 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006668)

KINE 118W Intermediate Basketball: Women 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006669)

Kinesiology and Exercise Physiology

KINE 119A Cross-Country Skiing 1.0 Fa/Spr

Cross-country skiing is a class designed for the person interested in exploring the back country of the High Sierra during the winter and spring months. The class is for the beginning cross-country skier. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. Credit/no credit grading only. (006672)

KINE 120A Beginning Bowling 1.0 Fa/Spr

Skills, rules, tournament play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006673)

KINE 120B Intermediate Bowling 1.0 Fa/Spr

Skills, rules, tournament play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006674)

KINE 120C Advanced Bowling 1.0 Fa/Spr

Skills, rules, tournament play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006675)

KINE 121 Backpacking 2.0 Fa/Spr

The wilderness experience is a special retreat into a different way of living; a journey away from the paved-over world that brings us new perceptions of ourselves. The backpacking course is a random collection of information, news, and sources about the wilderness. Tips on hiking gear, eating for the trail, and other wilderness details, plus actual wilderness experiences will be offered. 4.0 hours field studies. You may take this course more than once for a maximum of 6.0 units. Special fee required; see the Class Schedule. (006677)

KINE 122 Intermediate Backpacking 3.0 Fa/Spr

Prerequisites: KINE 121 or equivalent.

The wilderness experience is a special retreat into a different way of living; a journey away from the paved-over world that brings us new perceptions of ourselves. The intermediate backpacking course allows students to continue to learn backpacking skills beyond the beginner's level. Topics such as advanced Leave No Trace techniques, map and compass navigation, cross-country hiking, trip planning, land use regulations, route selection, and lightweight hiking may be addressed. Course capstone is an intense multi-day backpacking trip in a small group over rugged and challenging terrain. 6.0 hours activity. (020815)

KINE 123 Indoor Rock Climbing 1.0 Fa/Spr

This course introduces students to indoor rock climbing and gives students basic skills, techniques, and safety elements necessary to climb efficiently and safely indoors. The class is taught in the Climbing Gym only and has no field trips. 2.0 hours field studies. You may take this course more than once for a maximum of 3.0 units. Special fee required; see the Class Schedule. ABC/no credit grading only. (006683)

KINE 124 Basic Rock Climbing 2.0 Fa/Spr

This course introduces students to rock climbing. The class is held in the Climbing Gym in addition to three required field trips. Basic skills include climbing techniques, belaying, rappelling, and basic anchors. 4.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. ABC/no credit grading only. (006684)

KINE 125 Beginning Scuba Diving 2.0 Fa/Spr

Prerequisites: Ability to swim in deep water.

This course is designed for students who have no previous experience scuba diving. Students will develop safe scuba diving practices through lecture, video, reading, and pool sessions. Upon successful completion of the course, the student will be able to participate in Open Water Certification. 4.0 hours field studies. Special fee required; see the Class Schedule. (006691)

KINE 126 Beginning Whitewater Kayaking 2.0 Fa/Spr

This course gives students an introduction to river kayaking skills on moving water and whitewater. Students gain an understanding of the equipment, techniques, and procedures to paddle and conduct kayaking activities in moving water and whitewater (up to Class III). Emphasis is on development of individual paddling skills, boat control, rescue techniques, safe paddling, and group management and travel on moving water. River hydrology, hazard identification, safety, judgment, and kayak outfitting are addressed. 4.0 hours field studies. ABC/no credit grading only. (020733)

KINE 127 Beginning Canoeing 2.0 Fa/Spr

This course gives students an introduction to flat water, moving water and whitewater canoeing skills. Students gain an understanding of the equipment, techniques, and procedures to paddle in flat water, moving water, and whitewater environments. Emphasis is on the development of individual paddling skills, safe and conscientious paddling, and group management while on moving water. Boat control, maneuvering, safety, judgment, and canoe travel are addressed. 6.0 hours field study. You may take this course more than once for a maximum of 4.0 units. (020816)

KINE 129 Flag Football 1.0 Fall

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006714)

KINE 134A Beginning Golf 1.0 Fa/Spr

Skills, rules, etiquette, strategy, participation. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. Special fee required; see the Class Schedule. (006721)

KINE 134B Intermediate Golf 1.0 Fa/Spr

Skills, rules, etiquette, strategy, participation. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. Special fee required; see the Class Schedule. (006722)

KINE 136I Beginning Gymnastics: Men 1.0 Fa/Spr

Skills on parallel bars, side horse, horizontal bar, and still rings. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006726)

KINE 136J Intermediate Gymnastics: Men 1.0 Fa/Spr

Skills on parallel bars, side horse, horizontal bar, and still rings. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006727)

KINE 136V Beginning Gymnastics: Women 1.0 Fa/Spr

Skills on uneven bars, balance beam, vaulting, and floor exercise. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006730)

KINE 136W Intermediate Gymnastics: Women 1.0 Fa/Spr

Skills on uneven bars, balance beam, vaulting, and floor exercise. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006731)

KINE 140 Ultimate Disk 1.0 Fa/Spr

This activities class teaches students the fundamentals of the game/sport. It is a self-governed sport that has a unique set of rules in which players are required to be honest and play at the highest level but never at the expense of the game itself or the respect of the opponent. 2.0 hours activity. You may take this course more than once for a maximum of 3.0 units. (020203)

KINE 141A Beginning Jujitsu and Self-Defense 1.0 Fa/Spr

See description below. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006749)

KINE 141B Intermediate Jujitsu and Self-Defense 1.0 Fa/Spr

Covers the basic history and philosophy of Japanese jujitsu as well as its application to self-defense. Students will acquire self-defense theory and skills, including escapes from grabs and holds, how and where to strike an assailant, how to roll and fall safely, and theories of attack and defense such as throwing, grappling, and submission techniques. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006750)

KINE 142 Aikido 1.0 Fa/Spr

Introductory instruction in the non-aggressive martial art of Aikido. Students will acquire skills in controlled breathing, energy development, mind-body coordination, and self-defense. Exposure to traditional Japanese culture, discipline, and learning techniques are emphasized. 2.0 hours field studies. You may take this course more than once for a maximum of 6.0 units. (006752)

KINE 143A Beginning Karate 1.0 Fa/Spr

This course has been designed to teach the fundamentals of a traditional Japanese form of Karate (Shotokan). The primary emphasis is on the acquisition of basic techniques and physical conditioning. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006753)

Highlighted text indicates a change from the original publication.

KINE 143B Intermediate Karate 1.0 Fa/Spr

A continuation of the fundamentals of Karate but with a working knowledge of basic techniques. Intermediate students will also learn at least four katas. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006754)

KINE 143C Advanced Karate 1.0 Fa/Spr

Instruction for the advanced student in Karate. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006755)

KINE 144A Beginning TaeKwonDo 1.0 Fa/Spr

Instruction in the martial art of TaeKwonDo. Students will learn the history and purpose of TaeKwonDo as well as developing self-discipline and skills for personal safety and protection. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006760)

KINE 144B Intermediate TaeKwonDo 1.0 Fa/Spr

Instruction in TaeKwonDo for students who have some knowledge of this martial art. Students will learn increased proficiency in mental and physical skills. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006761)

KINE 144C Advanced TaeKwonDo 1.0 Fa/Spr

Instruction for the student at the advanced level of TaeKwonDo. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006762)

KINE 146 Alpine Skiing, Snow Boarding, Telemarking 1.0 Spring

This class is for the beginning to advanced alpine skier, snow boarder or telemark skier. The class is 3 days long with lessons appropriate to the students skill level taught by instructors certified with the Professional Ski Instructor Association. The lessons are in the morning with free skiing the remainder of the day. 2.0 hours activity. You may take this course more than once for a maximum of 4.0 units. Special fee required; see the Class Schedule. Credit/no credit grading only. (006766)

KINE 147I Beginning Indoor Soccer: Men 1.0 Fa/Spr

Skills, rules, and tactics, with primary emphasis on the application of technique and tactics to game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006769)

KINE 147J Intermediate Indoor Soccer: Men 1.0 Fa/Spr

Skills, rules, and tactics, with primary emphasis on the application of technique and tactics to game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006770)

KINE 147V Beginning Indoor Soccer: Women 1.0 Fa/Spr

Skills, rules, and tactics, with primary emphasis on the application of technique and tactics to game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006771)

KINE 147W Intermediate Indoor Soccer: Women 1.0 Fa/Spr

Skills, rules, and tactics, with primary emphasis on the application of technique and tactics to game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006772)

KINE 148I Beginning Soccer: Men 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006774)

KINE 148J Intermediate Soccer: Men 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006775)

KINE 148V Beginning Soccer: Women 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006777)

KINE 148W Intermediate Soccer: Women 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006778)

KINE 149A Beginning Slow Pitch Softball 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006779)

KINE 150V Beginning Softball: Women 1.0 Spring

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006780)

KINE 150W Intermediate Softball: Women 1.0 Spring

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006781)

KINE 154A Beginning Swimming 1.0 Fa/Spr

For non-swimmers and those knowing only one or two elementary strokes. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006791)

KINE 154B Intermediate Swimming 1.0 Fa/Spr

Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, sidestroke, and elementary backstroke. Improvements of stroke mechanics and conditioning. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006792)

KINE 154C Advanced Swimming 1.0 Fa/Spr

Prerequisites: Ability to swim in deep water; satisfactory performance of front crawl, side stroke, and elementary back stroke. Improvements of stroke mechanics and conditioning. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006793)

KINE 154E Swimming for Individualized Program Needs 1.0 Fa/Spr

Special content mastery objectives are planned for students with unique needs, i.e. the disabled and those with low fitness levels. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006794)

KINE 155 Lifeguard Training 3.0 Fa/Spr

Students must pass a standard lifeguard training swim skills test during the first two weeks of class. Qualifications, responsibilities, skills and training for lifeguards are elaborated. Swimming rescues of active and passive drowning victims are emphasized. American Red Cross certification in Lifeguard Training, CPR for the Professional Rescuer/AED, and Community First Aid may be obtained. 1.0 hours lecture, 4.0 hours field studies. (006910)

KINE 156A Beginning Tennis 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006800)

KINE 156B Intermediate Tennis 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006801)

KINE 156C Advanced Tennis 1.0 Fa/Spr

Skills, rules, and strategy, with primary emphasis on the application of skills and strategy in game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006802)

KINE 157 Water Safety Instruction 3.0 Fa/Spr

Prerequisites: Superior skill in swimming strokes; current American Red Cross Life-saving Certificate. A.R.C. Water Safety Instructor Certificate is issued upon satisfactory completion of course. Part I: review, analysis, and evaluation of basic strokes and lifesaving techniques. Part II: theoretical background of aquatic instruction and practical experience. 3.0 hours clinical. (006911)

KINE 158 Sports Officiate 1.0 Fa/Spr

You may take this course more than once for a maximum of 4.0 units. (006947)

KINE 159 Jogging 1.0 Fa/Spr

Skills, individualized fitness program, participation. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006818)

KINE 160A Beginning Tumbling 1.0 Fa/Spr

Tumbling skills, including trampolining and competition. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006819)

KINE 160B Intermediate Tumbling 1.0 Fa/Spr

Tumbling skills, including trampolining and competition. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006820)

Kinesiology and Exercise Physiology

KINE 162A Beginning Volleyball 1.0 Fa/Spr

Cultural orientation, rules, skills, and strategies, with primary application through game play. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006828)

KINE 162B Intermediate Volleyball 1.0 Fa/Spr

Rules, strategies, and skills for the intermediate player, with primary application through game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006829)

KINE 162C Advanced Volleyball 1.0 Fa/Spr

Rules, strategies, and skills for the advanced player, with primary application through game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006830)

KINE 162K Advanced Volleyball: Men 1.0 Fa/Spr

Rules, strategies, and skills for the advanced player, with primary application through game play. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006833)

KINE 164A Beginning Water Polo 1.0 Fa/Spr

Skills, rules, offensive and defensive strategy. Field player and goalie play, competition, and international styles of water polo. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006837)

KINE 164B Intermediate Water Polo 1.0 Fa/Spr

Skills, rules, offensive and defensive strategy. Field player and goalie play, competition, and international styles of water polo. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006838)

KINE 164K Advanced Water Polo 1.0 Fall

Skills, rules, offensive and defensive strategy. Field player and goalie play, competition, and international styles of water polo. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006841)

KINE 164V Beginning Water Polo: Women 1.0 Inquire

Skills, rules, offensive and defensive strategy. Field player and goalie play, competition, and international styles of water polo. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006843)

KINE 164W Intermediate Water Polo: Women 1.0 Inquire

Skills, rules, offensive and defensive strategy. Field player and goalie play, competition, and international styles of water polo. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006844)

KINE 166A Beginning Weight Training 1.0 Fa/Spr

Instruction in the techniques of weight training. Individually adapted exercise programs, and the basic development of strength, endurance, speed, and agility through specific weight training programs. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006846)

KINE 166B Intermediate Weight Training 1.0 Fa/Spr

Instruction in the techniques of weight training. Individually adapted exercise programs, and the basic development of strength, endurance, speed, and agility through specific weight training programs. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006847)

KINE 166V Beginning Weight Training: Women 1.0 Fa/Spr

Instruction in the techniques of weight training. Individually adapted exercise programs, and the basic development of strength, endurance, speed, and agility through specific weight training programs. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006852)

KINE 167A Beginning Lifetime Fitness 1.0 Fa/Spr

A course designed to promote wellness through use of stairmaster, life-cycle, treadmill and other aerobic machines and activities. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006854)

KINE 167B Intermediate Lifetime Fitness 1.0 Fa/Spr

A course designed to promote wellness through use of stairmaster, life-cycle, treadmill and other aerobic machines and activities. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006855)

KINE 167C Advanced Lifetime Fitness 1.0 Fa/Spr

A course designed to promote wellness through use of stairmaster, life-cycle, treadmill and other aerobic machines and activities. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006856)

KINE 168 Core Strengthening 1.0 Fa/Spr

This course focuses on muscle strengthening and conditioning through a wide variety of techniques and modalities. Focus includes overall major muscle groups, core strengthening, trunk stabilization involving "traditional" strength training techniques in addition to work with stability balls, balance equipment, and strength training equipment including free weights, machines, body weight, weighted balls and mat work. 2.0 hours activity. You may take this course more than once for a maximum of 3.0 units. (020202)

KINE 169 Yoga 1.0 Inquire

Introduction to basic yoga postures. Study and practice of exercises for self-awareness, breathing, relaxation, visualization, and meditation. 2.0 hours field studies. You may take this course more than once for a maximum of 2.0 units. (006860)

KINE 169B Intermediate Yoga 2.0 Fa/Spr

In this course students explore the ancient system of Yoga. The focus is on the eight-limbs of Yoga emphasizing Asana (physical postures), Pranayam (breathing) and Dhyana (meditation). The emphasis is on practice as opposed to theory. 4.0 hours activity. You may take this course more than once for a maximum of 4.0 units. (020692)

KINE 170 African and Afro-Caribbean Dance 2.0 Fa/Spr

Though this is primarily a dance class, students also study the music linked to the dance and its cultural context as they follow the movement evolution of the dance from its roots in Africa to the New World. The class begins with a thorough and vigorous technical warm up designed to familiarize students with the isolations of the hip, shoulder, and torso, spinal waves and rhythmic foot patterns of this dance form. Students progress to learning the dances and their companion rhythms from Africa, Cuba, Haiti, and Brazil, expressing grace, abandon, humor, flirtation, athleticism, and martial art. Coursework includes a research project and performance in campus cultural events. 4.0 hours activity. (020468)

KINE 196 Service Learning in Movement Studies in Disability 1.0 Fa/Spr

This course provides students with a service learning experience in the area of movement studies in disability. University students are placed with a child with a disability to assist the child with selected individualized activity programs. Programs are designed in conjunction with parents to meet the individual child's physical, social, emotional, and motivational needs. 2.0 hours field studies. You may take this course more than once for a maximum of 4.0 units. (006869)

KINE 197 Adapted Physical Activity 1.0 Fa/Spr

This course provides individualized activity programs for adults with disabilities. Individuals participate in weight training, stretching and relaxation, lap swimming, water jogging, or walking programs to meet their personal wellness goals. Programs are designed to meet individual physical and motivational needs. In addition, students who become injured and cannot complete an activity class may enter to complete their hours for credit through an individualized program. 2.0 hours activity. You may take this course more than once for a maximum of 6.0 units. (006872)

KINE 198 Special Topics 1.0-3.0 Fa/Spr

This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. You may take this course more than once for a maximum of 99.0 units. (020360)

KINE 206 Aquatics 3.0 Fa/Spr

Prerequisites: Intermediate swimming or the equivalent. The analysis of selected movement activities which emphasize aquatic skill. Application of skill and knowledge includes stroke mechanics, synchronized swimming, off-deck diving, water polo, and water games. 2.0 hours activity, 2.0 hours clinical. (006883)

KINE 207 Analysis of Physical Education Theory 2.0 Fa/Spr

Prerequisites: Special permission required. See department secretary. Supervised on-campus leadership course in physical education activity courses. Critical analyses of physical education leadership techniques. You may take this course more than once for a maximum of 6.0 units. (006885)

KINE 219 Electrocardiography: Myocardial Anatomy, Physiology, and Electrophysiology 1.0 Fa/Spr

This is the first of a three-part course offered in sequence during a semester. Introduction to the essential principles of the anatomy and physiology of the heart, electrophysiology, and basic electrocardiography. After successfully completing this course, students will be able to understand basic anatomy and physiology of the heart, electrophysiology of the heart, and will be able to identify the basic components of the electrocardiogram. This course is also offered as NURS 219. (006475)

KINE 220 Electrocardiography: Basic Arrhythmia Recognition 1.0 Fall

This is the second of a three-part course offered in sequence during a semester. Introduction to basic arrhythmia recognition and interpretation and the 12-Lead ECG system. After successfully completing this course, students will be able to recognize, interpret, and understand the clinical significance of basic atrial and ventricular arrhythmias, as well as understand the 12-Lead ECG system. This course is also offered as NURS 220. (006477)

KINE 221 Electrocardiography: Introduction to 12-Lead Electrocardiography 1.0 Fall

This is the third of a three-part course offered in sequence during a semester. Introduction to bundle branch blocks, cardiac hypertrophy, myocardial infarction, and myocardial ischemia. After successfully completing this course, students will be able to recognize, interpret, and understand the clinical significance of bundle blocks, chamber enlargement, electrolyte imbalances, and myocardial ischemia and infarction. This course is also offered as NURS 221. (006479)

KINE 222 Challenge Quest 3.0 Fa/Spr

This course provides the students an opportunity to participate in a series of challenge course activities involving mental, physical, and emotional risk-taking in a safe, supportive, positive learning environment. This course focuses on transferable knowledge from challenge course experiences to college, work, home, and life. The course concentrates on leadership principles; life long learning, physical movement, mental challenges, emotional risk-taking; decision making and problem solving; interpersonal and intrapersonal relationship skills, collaboration, and reflection. 1.0 hours lecture, 6.0 hours laboratory. (020716)

KINE 223 Challenge Course Tech Skills 2.0 Fa/Spr

Prerequisites: This course is intended for challenge course facilitators who need to update or learn the necessary technical skills to safely manage a low and high challenge course. Focus of the course is on updating practitioners on the safety and standards for the safe facilitation of challenge course elements. (020825)

KINE 224 Methods of Teaching Rock Climbing 3.0 Fall

Prerequisites: KINE 123 or KINE 124 recommended. This course is for outdoor education and recreation leaders and is an introduction to the skills and safety systems associated with beginning rock climbing (e.g., top rope climbing, rappelling, bouldering) and the management of rock climbing in outdoor programs. Additionally, teaching methods appropriate for rock climbing are discussed, demonstrated, and evaluated. This course requires additional field time taught on weekends. 1.0 hours lecture, 6.0 hours field studies. Special fee required; see the Class Schedule. (006686)

KINE 226 Methods of Teaching Wilderness Living 4.0 Fa/Spr

Prerequisites: KINE 121 recommended but not required. Introduction to basic summer backpacking skills, including equipment, nutrition, fitness, minimum impact camping, safety, beginning map and compass skills, leadership issues, and environmental ethics. Emphasis on technical applications and the implementation of these skills in adventure programs. Successful completion of this course meets the requirements for two national certifications: 1) The Wilderness Education Association's Wilderness Steward Certification; 2) Leave No Trace Trainer Certification. This course requires a ten-day field session taught over Thanksgiving break. 2.0 hours lecture, 6.0 hours field studies. Special fee required; see the Class Schedule. (006700)

KINE 227 Winter and the Mountain 4.0 Spring

Prerequisites: KINE 226 or equivalent. Introduction to winter wilderness living skills including nutrition, minimum impact camping, snow physics, avalanche, safety, medical issues, back country skiing techniques, snow shelters, leadership issues, and environmental ethics. Emphasis is on technical applications and the implementations of these skills in adventure programs. Successful completion of this class earns the student an American Institute of Avalanche Research and Education Level I certification. This is a physically demanding course requiring 10 continuous days of camping in winter conditions. It is not for the novice. 1.0 hours lecture, 6.0 hours field studies. Special fee required; see the Class Schedule. (006685)

KINE 228 Methods of Teaching Canoeing and Kayaking 3.0 Fa/Spr

Prerequisites: KINE 226 (may be taken concurrently). This course gives students an introduction to whitewater canoeing and kayaking skills. Students gain an understanding of the equipment, techniques, and procedures to conduct canoeing and kayaking activities in flat water, moving water, and whitewater environments. Emphasis is on the development of individual paddling skills, safe and conscientious paddling, and group management while on moving water. This course requires additional field time taught on weekends. 1.0 hours lecture, 6.0 hours field studies. Special fee required; see the Class Schedule. (006707)

KINE 295 Disability and Physical Activity in the Media 3.0 Fa/Spr

This course provides students with an opportunity to learn about disability in film and physical activity. Moreover, the experience provides students an in-depth look into the portrayal of individuals with disabilities in film and media and how this does or does not coincide with societal views and values, education, physical education, politics, individual and group behavior. Perceptions and personal views regarding individuals with disability and their inclusion/segregation in society are explored through visual arts. (020448)

KINE 296 American Sports in Film 3.0 Fa/Spr

The study of American sport history, the language of sport, and the contributions made by men and women from a variety of ethnic backgrounds. The principal mode of study is a group of selected sport films. Special note is made concerning humor, legend, and herosim. You may take this course more than once for a maximum of 6.0 units. (006986)

KINE 301 Principles of Skill Acquisition 3.0 Inquire

A study of the processes involved in learning motor skills. Emphasis is placed on conditions which promote the acquisition and retention of skills and their transfer to the sports contest and performance. Topics include task analysis, stages of learning, practice conditions, and the use of learning aids. (006989)

KINE 302 Foundations of Childhood Physical Education 3.0 Fa/Spr

This course is designed to present a knowledge base of physical education that includes the analysis of movement skills and movement patterns, physical fitness, and how physical education is inherently linked to health and wellness. Also studied in this course will be children's motor development and how emotional, cognitive, and social growth characteristics influence motor development. (006877)

KINE 303 Motor Development in Children 3.0 Fa/Spr

This course is designed for individuals who intend to work with young children. The focus will be on understanding motor development in infants and children (birth to age 10). This course studies the physical, cognitive and social/emotional aspects of motor development. 2.0 hours field studies, 2.0 hours lecture. (006878)

KINE 305 Philosophy of School Based Teaching Physical Education 3.0 Fa/Spr

This course is designed for Single Subject majors and prospective teachers using a reflective approach to school based physical education. The course focuses on seven primary content areas to include teacher socialization, teaching/coaching role conflict, reflective teaching and learning, lifespan model of physical education, diversity and equity, and curriculum models. 2.0 hours activity, 2.0 hours lecture. (006933)

Highlighted text indicates a change from the original publication.

Kinesiology and Exercise Physiology

KINE 308 Dance, Rhythms, and Educational Gymnastics 3.0 Fa/Spr

Prerequisites: Faculty permission.

The analysis and performance of basic fundamental movement skills and rhythmic activities for various dance forms (modern, social, folk, square). Developmentally appropriate learning experiences in educational gymnastics. This course is for Physical Education majors and Liberal Studies Concentration students. 2.0 hours activity, 2.0 hours clinical. (006890)

KINE 309 Developmentally Appropriate Physical Education for Children 3.0 Fa/Spr

The philosophies and objectives, curriculum content (movement concepts and motor skills), and evaluative techniques for developmentally appropriate children's physical education are emphasized. 2.0 hours activity, 2.0 hours clinical. (006892)

KINE 312 Outdoor Education for Teachers 3.0 Fa/Spr

This course gives students a foundation in theory, philosophy, and methods used to teach developmentally appropriate outdoor and adventure education. Students explore imitative games, problem solving, low and high ropes course activities, rock climbing, orienteering, and legal liability and safety issues associated with developing programs. Although the course is designed for physical education majors, it is also appropriate for anyone wishing to incorporate adventure education into their curriculum. Field trips are required. 2.0 hours activity, 2.0 hours lecture. Special fee required; see the Class Schedule. (006895)

KINE 314 Psychology of Coaching 3.0 Fa/Spr

This course provides prospective coaches with knowledge about the psychological factors and principles used in coaching, team dynamics, and the enhancement of athletic performance. (006990)

KINE 315 Introduction to Adapted Physical Activity 3.0 Fa/Spr

A study of common disabilities found across the lifespan. Discussions are held about the historical and philosophical basis for adapted physical activity, and the impact of state and federal legislation. Analysis of the roles and responsibilities of the adapted physical education specialist and the inclusive educational environment also are examined. This course is applicable to all disciplines dealing with the disabled. (015911)

KINE 316 Principles of Sports Injury Management 4.0 Fa/Spr

Prerequisites: Basic First Aid or equivalent course, faculty permission.

Theory and practice in the prevention, care, and rehabilitation of injuries commonly encountered in sport and competitive athletics. Concepts of injury recognition and management will be covered. 2.0 hours activity, 3.0 hours clinical. (006902)

KINE 317 Advanced Athletic Training 3.0 Fa/Spr

Prerequisites: KINE 316.

Advanced bandaging techniques, evaluation of individual injuries, and special field work experience. 3.0 hours clinical. (006903)

KINE 318 3-D Desktop Video Applications 3.0 Fa/Spr

Class topics and projects will explore human movement activities in 3 dimensions. Students will use video cameras, computers, the Video Toaster and Lightwave 5 to produce a 3-D videotape of human movement. 2.0 hours activity, 2.0 hours lecture. (007000)

KINE 320 Foundations of Embodied Knowledge in Kinesiology 3.0 Fa/Spr

Prerequisites: ENGL 130 (or its equivalent) with a grade of C- or higher.

This course examines social and psychological principles, theories, and research related to physical education, sport, fitness and exercise behavior. It is designed to introduce one to embodied knowledge and psychosocial movement concepts and practices. Select topics will include exercise psychology, motivation, arousal, motor learning, stress, anxiety and competitive and cooperative behaviors of humans in individual, team, and group movement settings. This is a writing proficiency, WP, course; a grade of C- or better certifies writing proficiency for majors. (006898)

KINE 321 Motor Development and Behavior 3.0 Fa/Spr

Theories of motor development, acquisition, and refinement of skills as well as skill themes and movement concepts are studied. Physical, neurological, and physiological principles and qualitative changes in motor skills occurring from infancy to preadolescence and adolescence to older adulthood are analyzed. (006935)

KINE 322 Biomechanics 4.0 Fa/Spr

Prerequisites: BIOL 103 or faculty permission for non-majors, basic computer literacy skills.

Anatomical and mechanical bases of human movement with application to more skillful and safe performance. Qualitative and quantitative methods of analysis are introduced. 2.0 hours activity, 3.0 hours lecture. Special fee required; see the Class Schedule. (006973)

KINE 323 Physiology of Exercise 4.0 Fa/Spr

Prerequisites: BIOL 104 or faculty permission for non-majors, basic computer literacy skills.

This course is an in-depth study of the physiology of exercise. Emphasis will be placed on energy metabolism during exercise and its relationship to the circulatory, pulmonary, and neuro-endocrine systems. Practical application will be stressed through discussions of clinical exercise physiology, exercise prescription, environmental exercise physiology, exercise and disease, special populations, biological adaptation, and the biology of peak performance. Concepts will be reinforced through laboratory exercises. 2.0 hours activity, 3.0 hours clinical. Special fee required; see the Class Schedule. (006968)

KINE 324 Exercise Physiology: Metabolism 4.0 Spring

Prerequisites: BIOL 104, KINE 323.

This course introduces students to the cellular aspects of exercise. Students become familiar with the mechanisms of exercise-induced adaptations and how exercise ameliorates metabolic disorders. Students gain insight into the hormonal and neural regulation of cellular processes, the various processes at the cellular level, the mechanisms responsible for increased enzyme content in trained skeletal muscle, and how exercise affects gene transcription. 2.0 hours activity, 3.0 hours clinical. (006969)

KINE 331 Principles of Team Sports 3.0 Fa/Spr

Prerequisites: Basic computer literacy skills.

Course includes laboratory projects and written exams which cover the essential elements of coaching and performing in a team sport environment. One major project will be designed by each student. 2.0 hours lecture, 3.0 hours laboratory. You may take this course more than once for a maximum of 9.0 units. (007007)

KINE 332 Principles of Individual Sports 3.0 Fa/Spr

Prerequisites: Basic computer literacy skills.

Course includes laboratory projects and written exams which cover the essential elements of coaching and performing in an individual sport environment. One major project will be designed by each student. 2.0 hours lecture, 3.0 hours laboratory. You may take this course more than once for a maximum of 9.0 units. (007008)

KINE 340 Educational Games, Gymnastics, and Dance 3.0 Fa/Spr

Prerequisites: KINE 100 or faculty permission, KINE 309.

Developmentally appropriate learning experiences in educational games, gymnastics, and dance will be emphasized. Content progressions and application of movement concepts and motor skills, using a developmental perspective, provide prospective teachers with content knowledge that goes beyond fundamental movements but precedes structured (official) sports, games, gymnastics, and dance. 2.0 hours field studies, 2.0 hours lecture. (006928)

KINE 345 Motor Learning and Human Performance 3.0 Fa/Spr

Prerequisites: Basic computer skills or faculty permission.

This course explores the principles and concepts involved in learning motor skills and the conditions that can influence that learning. Topics may include open and closed loop systems, feedback, attentional focus, inverted u-theory, practice schedules, and many others. (006939)

KINE 346 Sport and Society 3.0 Inquire

This course examines the connections between sport and society, including socialization, values, education, deviance, the economy, and the media. Attention is given to the ways that gender, race, social class, sexuality, and the body influence sports, as well as recent controversial issues such as player and fan violence, and drug abuse among athletes. This course is also offered as SOCI 346. (006942)

KINE 347 Sport, Games, and Play in Non-Western Cultures 3.0 Fa/Spr

The course seeks to develop an understanding of the dimensions along which the human experience varies. Sport, game, and play forms vary dependent upon the cultural environment and historical period in which they are embedded. Analysis of variations in sport forms will provide cultural and temporal perspective on differences in human behaviors, beliefs, and social institutions. This is an approved General Education course. This is an approved Global Cultures course. (006945)

KINE 351 Aquatics for the Adapted Instructor 2.0 Spring

Prerequisites: First Aid and CPR or faculty permission; WSI recommended.

Specific instructor training in aquatics programs for individuals with disabilities. Inclusive and developmentally appropriate aquatic activities, sports, and games are included. Qualified students may earn Special Olympic coach's certification in aquatics. 2.0 hours clinical. You may take this course more than once for a maximum of 4.0 units. (006784)

KINE 352 Introduction to Dance 3.0 Fa/Spr

Survey course of dance as an art form, including social, ballet, modern, post-modern, jazz, and musical comedy. Topics covered will include the artistic role of dance and the roots, theories, criticisms, and concepts which inform the contemporary dance aesthetic. An appreciation course employing lecture, discussion, video/film. This course is entirely Internet based, with some additional on-campus time. This is an approved General Education course. (002483)

KINE 353 Advanced Kayaking 2.0 Fa/Spr

Prerequisites: KINE 228 or KINE 126.

This course provides students a more in depth knowledge of the skills and techniques of whitewater kayaking. Building from previous whitewater experience, students further their understanding of the equipment, techniques, hydrology, and procedures to paddle in moving water and white-water (up to Class III). Emphasis is on development of individual paddling skills, rescue techniques, hazard identification, safety and judgement. There is focus on the natural systems that surround rivers and stewardship opportunities available both locally and nationally. (020817)

KINE 357 Lead and Multi-pitch Climbing 2.0 Fall

Prerequisites: KINE 224.

This course prepares the student to teach roped climbing and to guide students on multi-pitch rock climbs. This is an advanced course and builds upon the skills taught in KINE 224. The course focuses on teaching easy to moderate lead climbing safely while also focusing on methods of teaching lead climbing to students in an education setting. (020979)

KINE 381 Reconditioning of Athletic Injuries 3.0 Spring

Prerequisites: KINE 316; a course in anatomy is recommended.

The role of exercise in the reconditioning of common athletic injuries. Principles in the development and application of exercise programs for injured athletes. 3.0 hours clinical. (006970)

KINE 386 Sports Epidemiology 3.0 Fa/Spr

Prerequisites: Basic computer skills or faculty permission.

Methods of epidemiology are now being applied to sports performance, injury prevention and recovery, and exercise-related disease prevention. This course will cover observational study design and analysis, including elementary probability theory using Bayes rule, sampling, relative risk, odds ratio, data adjustment via elementary analysis covariance, and data extrapolation and prediction. (006974)

KINE 387 Introduction to Field Work in Athletic Training 3.0 Fa/Spr

Prerequisites: BIOL 103, Basic First Aid, CPR, KINE 316, faculty permission.

Introduction to the practical application of basic athletic training principles. Includes becoming familiar with strapping techniques, wound care, modality use, policies, procedures, and NATA Certification Requirements. 3.0 hours clinical. (006975)

KINE 388 Personal Training and Exercise Leadership 3.0 Fa/Spr

Prerequisites: KINE 323; KINE 389, KINE 480 (may be taken concurrently).

This class provides the basic principles, applications, and experiences necessary to design, instruct, and supervise individuals in safe and appropriate exercise activities. The course incorporates theories of communication, program design, equipment selection, legal/liability considerations, assessment and follow up, business and marketing concepts related to the fitness industry. In addition, various theories of individual and group motivation, such as goal setting and problem solving as well as social support and reward systems, are discussed. The course provides relevant knowledge, skills, and practical applications to individuals who will someday or are currently responsible for developing and administering individual and group exercise programs, including personal trainers, physical education teachers, physical therapists, and coaches. (020200)

KINE 390 Principles of Strength and Conditioning 3.0 Fa/Spr

Prerequisites: KINE 322, KINE 323, or faculty permission.

Course is designed to offer sound, systematic training programs for those men and women who wish to apply strength and conditioning techniques to specific sports and/or physical activities. Various new and traditional weight training techniques and programs will be reviewed in light of desired outcomes for the individual participant in sports and physical activities. 6.0 hours activity. (006959)

KINE 398 Special Topics 1.0–3.0 Fa/Spr

Prerequisites: Department permission.

This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. (006987)

KINE 399 Special Problems 1.0–3.0 Fa/Spr

This course is an independent study of special problems and is offered for 1.0-3.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. Credit/no credit grading only. (006988)

KINE 410 Developmentally Appropriate Physical Education for Middle School Students 3.0 Fa/Spr

Prerequisites: KINE 305, KINE 309.

Students learn about developmentally appropriate physical education for youth in middle school (grades 6-8). Students also learn about the philosophies and goals/objectives, curriculum content, and evaluative techniques using sport activities such as lacrosse, team handball, ultimate frisbee, and disc golf. 2.0 hours activity, 2.0 hours clinical. (006893)

KINE 411 Assessment in Physical Education 3.0 Fa/Spr

Prerequisites: KINE 305, KINE 309, faculty permission.

The course is designed for the prospective physical education teacher. Application of tests and measurements in the evaluation process will be defined. Included will be the evaluation of sport skill, motor ability, physical performance, and cardiovascular fitness. 2.0 hours activity, 2.0 hours lecture. (006972)

KINE 430 Administration and Management of Sport and Fitness Programs 3.0 Fa/Spr

Prerequisites: Basic computer literacy skills.

Course includes laboratory projects and written exams which cover the essential elements of administration/management of modern day physical education and athletic programs. Students will be systematically introduced to the meaning of management and the different styles of management in the conduct of specific programs such as intramurals, athletics, instructional programs, clubs, corporate fitness, etc. One major project will be designed by each student. 2.0 hours lecture, 3.0 hours laboratory. You may take this course more than once for a maximum of 9.0 units. (007006)

KINE 460 Foundations of Outdoor Education 3.0 Fa/Spr

This course provides the historical and philosophical foundations for using the outdoors as a medium for learning. Basic teaching and leadership styles used in instruction are emphasized, including a detailed look at the ethics involved in using the outdoors and adventure programming in education. (007019)

KINE 461 Theory of Outdoor Leadership 3.0 Fa/Spr

Prerequisites: KINE 460.

This course discusses the theoretical foundations of outdoor leadership. Instruction incorporates a focused investigation into the nature of outdoor leadership as a profession; including the theory and application of outdoor leadership and the core competencies of being an outdoor leader. The goal is to learn about the elements that comprise effective leadership in the outdoors. (020981)

KINE 470 Practicum in Outdoor Education 9.0 Summer

Prerequisites: KINE 226 and one of the following KINE 224, KINE 227, KINE 228 or equivalent.

Thirty-five-day wilderness experience which provides future teachers, counselors, and group leaders with a foundation to planning theory, goals, and safety practices of an extended wilderness expedition. The course is field-based, meaning that the classroom is remote wilderness settings. Key in this instruction is the participant's involvement in a group development experience while at the same time learning the skills, knowledge, and awareness necessary to conduct safe, ethical, and effective wilderness-based learning programs. Substitution with courses from the National Outdoor Leadership School, Outward Bound, the Wilderness Education Association, or other qualified programs. 27.0 hours clinical. Special fee required; see the Class Schedule. Credit/no credit grading only. (007022)

KINE 480 Exercise Testing and Prescription 3.0 Fa/Spr

Prerequisites: KINE 323.

Introduction to the essential principles and skills of exercise testing and prescription. Students acquire knowledge of and skill in risk factor and health status identification, fitness appraisal, and exercise prescription for low to moderate risk individuals and individuals with controlled diseases. Students demonstrate the ability to incorporate suitable and innovative activities that will improve an individual's functional capacity. In addition, advanced concepts of strength, flexibility and body composition are discussed. 2.0 hours activity, 2.0 hours lecture. Special fee required; see the Class Schedule. (007023)

Highlighted text indicates a change from the original publication.

Kinesiology and Exercise Physiology

KINE 480H Exercise Testing and Prescription - Honors 3.0 Fa/Spr

Prerequisites: KINE 180, acceptance into the Honors Program, faculty permission. The purpose of this course is to provide the student with hands-on experience performing physical testing on a wide variety of people. This course will offer students an opportunity to learn to administer a Human Performance Lab. Hands-on use of the equipment will be taught through corresponding lectures. Honors students will participate in a research study using laboratory equipment to collect physiological data and will present their findings at the end of the study. 2.0 hours activity, 2.0 hours lecture. (007025)

KINE 482 Exercise Pathophysiology 3.0 Fa/Spr

Prerequisites: Bachelor's Degree in any discipline or KINE 322, KINE 323, KINE 480 or faculty permission. Exercise Pathophysiology, formerly known as Medical Topics in Exercise Physiology, focuses on how exercise ameliorates various chronic disorders. The course addresses obesity, metabolic, cardiovascular, muscular, skeletal, and auto-immune disorders. (007027)

KINE 483 Clinical Exercise Testing and Prescription 3.0 Spring

Prerequisites: KINE 219, KINE 220, KINE 221, KINE 480. This course introduces the student to the essential principles of clinical exercise testing and prescription. This medically based course provides students with an understanding of the principles of clinical exercise testing, the ability to interpret the results of clinical exercise tests and develop exercise prescriptions, the ability to conduct a variety of clinical exercise tests, the ability to screen individuals and stratify their risk, and the ability to recognize and respond to various emergency procedures associated with testing and training high risk individuals. 2.0 hours activity, 2.0 hours lecture. (007024)

KINE 484 Developmentally Appropriate Physical Education for High School Students. 3.0 Fa/Spr

Prerequisites: KINE 305, KINE 308, KINE 309, KINE 312, KINE 410, KINE 411. Developmentally appropriate physical education curriculum for students at the high school level with the focus on lifetime health-enhancing physical activities, aspects of curriculum and instruction to enhance the quality of the programs, and implications of research for the practice of physical education. Development and improvement of skills and knowledge in individual and dual activities such as tennis, pickleball, golf, in-line skating, and step aerobics. 2.0 hours activity, 2.0 hours clinical. (006894)

KINE 485 Seminar in Sports Medicine 3.0 Fa/Spr

Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100 or faculty permission. This course is designed to explore the diseases and injuries typically encountered in sports and exercise. Topics include physiology of adaptations, prevention of athletic injuries, physiology of trauma and inflammation, musculoskeletal arthritic, and environmental distress. (007028)

KINE 485H Seminar in Sports Medicine - Honors 3.0 Fa/Spr

Prerequisites: BIOL 103, BIOL 104, KINE 323, KINE 100; acceptance into the Honors Program. This course is offered concurrently with KINE 485. In addition to exploring the content of KINE 485, each student will complete an in-depth research project. The topic will be specific to the field of sports medicine and must have instructor approval. The student will make a formal presentation at the conclusion of the semester. The creative implementation of state-of-the-art technology will be encouraged in the application and/or presentation of the research projects. (007029)

KINE 488 Advanced Field Work in Athletic Training 3.0 Fa/Spr

Prerequisites: KINE 317, KINE 381, KINE 387, Basic First Aid and CPR cards, faculty permission. Experience in applying advanced athletic training principles in rendering care to athletic teams and/or individual student athletes. Designed to meet requirements for NATA Certification. You may take this course more than once for a maximum of 15.0 units. (006976)

KINE 489 Internship Seminar 3.0 Fa/Spr

Prerequisites: At least junior standing and faculty permission. Preparation and supervised practical work or leadership experience in various private and public agencies, organizations and services which may include: hospitals, recreation programs, community and professional organizations, health clubs, corporations, clinics, schools and athletic programs. Specific internship placements are required for given emphases and certifications. See your advisor. You may take this course more than once for a maximum of 15.0 units. (006980)

KINE 489L Assistant Leadership Seminar 1.0 Fa/Spr

Prerequisites: KINE 470 or faculty permission. Students who have demonstrated a high level of proficiency serve as assistant instructors in a selected Outdoor Education course. Students take active leadership roles; planning, sequencing and teaching adventure topics and skills; develop a comprehensive risk management plan. Students receive supervision and feedback on their leadership, and instructional planning and teaching skills. The Teaching Assistant may need to be involved in field-based trips lasting 3 to 15 days and should schedule accordingly. (020982)

KINE 492 Social Psychology of Sport, Play, and Games 3.0 Fa/Spr

This course investigates individual and group behavior within sport, play, and games. Social psychological research, principles, and issues will be presented, including performance enhancement, personality, interpersonal relations, group dynamics, socialization, communication, attitudes, emotions, and cognitions relative to sport, play, and games. This course is also offered as PSYC 492. (006993)

KINE 505 Exercise Behavior and Adherence 3.0 Fa/Spr

Prerequisites: KINE 320 and KINE 323 or faculty permission. This course is a study of the inter-relationships of behavioral, mental, and personal factors of exercise. Topics include exercise motivation, interventions and adherence; the impact of exercise on mood states; and the relationships between exercise, mental health and immune function. New skills such as interviewing are introduced. Focus is both theoretical and practical. (020852)

KINE 510 Seminar in School Physical Education 3.0 Fa/Spr

Prerequisites: Faculty permission. This is a capstone course designed for prospective teachers of school physical education who have completed the requirements of the Physical Education Option in Teacher Education. Students will synthesize content from coursework taken within the option and learn contemporary strategies for promoting developmentally appropriate physical education programs in schools (K-12). In addition to a review of option content this course will focus on 6 other topics: physical education curricular models, pedagogical content knowledge, program development, change agent skills for promoting school-based physical education programs, long-term professional development, and membership and involvement in professional organizations. (006994)

KINE 510H Seminar in School Physical Education - Honors 3.0 Fa/Spr

Prerequisites: Acceptance into the Honors Program. Honors students will complete all KINE 510 course requirements. In addition, they will identify a research question in one of the following areas: curriculum development, professional development, school culture, or change agency in education. Once a research question has been identified and approved by the instructor, students will write a review of research literature in an attempt to answer their questions. This review will carry forward to KINE 599H, where honors students will use their review to design and conduct a study, paper, or project. (006995)

KINE 513 Programming for Individuals with Physical and Neurological Disabilities 3.0 Spring

Prerequisites: KINE 315 or faculty permission. A study of prescriptive programming for individuals with orthopedic, neurological, and sensory disabilities. Evaluation of the anatomical and physiological implications and their effect upon psychomotor functioning. 3.0 hours clinical. (006897)

KINE 514 Programming for Individuals with Mental, Emotional, and Learning Disabilities 3.0 Fa/Spr

Prerequisites: KINE 315 or faculty permission. A study of prescriptive programming for individuals with disabilities, including mental, emotional, learning, and other health impairments. Instructional methods and intervention strategies will be explored in the psychomotor domain. (020035)

KINE 515 Collaboration in Adapted Physical Education 3.0 Spring

Prerequisites: KINE 315 or faculty permission. The development and interrelationships personal-social aspects of human movement, groups, and physical education, recreation, and sport experiences throughout the lifespan for individuals with disabilities. Focus includes social influences and interrelationships of peer relations, professional interactions, interdisciplinary team dynamics, and family systems. (006998)

Highlighted text indicates a change from the original publication.

KINE 516 Motor Assessment for Individuals with Disabilities 3.0 Fall

Prerequisites: KINE 315 or faculty permission.
Assessment of physical growth, motor development and proficiency, nutrition, motor fitness, and perceptual motor characteristics of individuals with disabilities. Emphasis is placed on testing procedures, evaluation of screening devices, authentic assessment, and practical implementation. Specific assessment instruments will be those commonly used in an adapted physical education setting. (006997)

KINE 520 Interdisciplinary Autism Clinic 3.0 Fa/Spr

Prerequisites: A survey course on disability, faculty permission.
This course covers the organization, administration, planning, and evaluation of interdisciplinary programming for children with autism spectrum disorder (ASD). The course is for students who are interested in working with children with autism and their families. Students examine research from a variety of disciplines and discuss within interdisciplinary teams the needs and effective support for a child and his or her family via direct service to children with ASD in a University laboratory setting. You may take this course more than once for a maximum of 6.0 units. (020201)

KINE 524 Biomechanical Analysis 3.0 Fa/Spr

Prerequisites: KINE 322 and basic computer literacy.
Introduction to research in biomechanics. Emphasis is on quantitative videographic techniques of sport and exercise activities. Other technological and bibliographic research methods are covered. Special fee required; see the Class Schedule. (007003)

KINE 524H Biomechanical Analysis - Honors 3.0 Fa/Spr


Prerequisites: KINE 322, basic computer literacy, acceptance into the Honors Program.
Introduction to research in biomechanics. Emphasis is on quantitative videographic techniques of sport and exercise activities. Other technological and bibliographic research methods are covered. Honors students are required to complete an additional biomechanical research project for KINE 599H. (007004)

KINE 554 Theory and Practice of Play and Games 3.0 Spring

Theoretical analysis of play and games and practical application and practice of social recreational play activities. Historical, evolutionary, and contemporary analyses of the play process within cultures. (007016)

KINE 557 Seminar in Theories of Perceptual-Motor Development 3.0 Inquire

Prerequisites: Faculty permission.
Survey of selected theories in perceptual-motor development, with emphasis on generalized application, program, components, and basic theoretical principles. (007018)

KINE 564 Facilitating the Adventure Experience  3.0 Fa/Spr

Prerequisites: KINE 222 recommended.
This course focuses on the process of facilitation. Specific attention is paid to transfer of learning, outdoor education process/theory, use of metaphors, small group development, debriefing/processing, providing appropriate feedback, therapeutic approaches, framing experiences, and the various theories involved in the use of adventure experiences as a medium for education/therapy. Applications are generalized to specific populations (e.g., youth at risk, chemical dependency, businesses, university orientation programs, and public schools). This class focuses on advanced methods of facilitation and processing. (007021)

KINE 586 Anatomical and Pathomechanical Aspects of Sports Injuries 3.0 Fa/Spr

Prerequisites: BIOL 103, BIOL 104, KINE 322.
The study of select human anatomy and specific pathomechanics related to sports and physical activity injuries. The course will focus on the role of anatomical structure and pathomechanical mechanisms of joint and tissue specific to injuries that occur to physically active populations. Previous study of human anatomy and kinesiology are required. (007030)

KINE 588 Seminar in Sport and Physical Activity Health Care 3.0 Fa/Spr

Prerequisites: KINE 317, KINE 381.
Advanced study of sports and physical activity health care. Topics include concepts of pathological orthopedic radiography, pharmacology, surgical techniques and recovery, and current trends in human performance health care. Previous study of athletic injury evaluation and rehabilitation required. (007032)

KINE 591 Educational Multimedia Development for Physical Education and Exercise Science 3.0 Spring

Prerequisites: Admission to the Athletic Training Education Option or faculty permission.
Students develop skills in designing, developing, and deploying educational multimedia Learning Objects specifically for Physical Education and Exercise Science content. A Learning Object represents a small unit of instruction that teaches a focused concept. It can contain opportunity for practice, simulation, collaborative interaction, and assessment around a Learning Objective or outcome. NOTE: this course utilizes online resources and requires completing assignments online. (007061)

KINE 598 Special Topics 1.0-3.0 Fa/Spr

This course is for special topics offered for 1.0-3.0 units. Typically the topic is offered on a one-time-only basis and may vary from term to term and be different for different sections. See the Class Schedule for the specific topic being offered. (007033)

KINE 599H Physical Education Honors Senior Research 3.0 Inquire

Prerequisites: For Honors students only, who have completed 9 upper-division units in physical education courses. Permission of Honors advisor required, faculty permission.
An intensive senior year, two-semester culminating experience taken as two 3-unit classes in consecutive semesters. Project outline and research first semester. Honors paper or project is prepared during second semester. High level of academic excellence is required. The paper or project must be approved by the department's Honor Advisor, the Department Chair, and the University Honors Director. The paper or project must be publicly presented. You may take this course more than once for a maximum of 6.0 units. (007036)

KINE 600 Seminar in Physical Education 3.0 Fa/Spr

A course designed to investigate the relationship between the various facets of the discipline of physical education, including philosophy, history, psychology, sociology, exercise physiology, perceptual-motor learning, biomechanics, athletic training, and pedagogy. This is a required course in the MA program. (007037)

KINE 601 Statistical Methods in Kinesiology Research 3.0 Fa/Spr

Prerequisites: KINE 484 or faculty permission.
Study of the descriptive and inferential statistics commonly used in kinesiology research. Emphasis is on learning concepts critical to reading research and using statistical computer programs with kinesiology data. This is a required course in the MA program. Special fee required; see the Class Schedule. (007038)

KINE 602 Research Design in Kinesiology 3.0 Fa/Spr

The formation of research problems, evaluation of research, and research report styles in kinesiology. The interrelation of theory and research and the variety of research methods (e.g., descriptive, experimental, qualitative) are examined. This is a required course in the MA program. (015962)

KINE 605 Sociological and Cultural Perspectives in Physical Education 3.0 Spring

Prerequisites: KINE 602.
An in-depth study of the theories of the origin of physical education; evaluation and assessment of findings as they relate to today's discipline. (007040)

KINE 606 Seminar in Psychological Foundations of Physical Education 3.0 Fa/Spr

Prerequisites: KINE 602.
Evaluation of current research and practices in mental and emotional adjustments of the human organism to physical activity. Topics will be selected for concentrated study from areas of motivation, emotional states, personality variables, mental and behavioral strategies used to enhance performance, and age and gender differences in performance. (015961)

KINE 607 Seminar in Philosophy of Physical Education 3.0 Fa/Spr

An in-depth reading and discussion of selected works of Hetherington, Dewey, Rousseau, Spinoza, Plato, Whitehead, Locke, Camus, and Sartre. (007042)

KINE 611 Administration of Sport and Exercise Programs 3.0 Fall

This course provides students with an understanding of the issues involved in being an administrator of a sport and/or exercise program. Topics include theories of management, legal issues (including liability), staffing, and budgeting. Students gain experience by managing an event during the semester. ABC/no credit grading only. (007043)

KINE 612 Sport and Exercise Facility Management 3.0 Spring

This course provides theoretical and practical applications for each phase of facility management. Topics include, but are not limited to, planning a facility, managing, marketing and event operations. Students create a proposal for a University or community facility. ABC/no credit grading only. (007048)

Kinesiology and Exercise Physiology

KINE 617 Fieldwork in Adapted Physical Education 3.0 Fa/Spr

Prerequisites: KINE 515, faculty permission.
Fieldwork with children in an adapted physical education setting. Involves assessing, diagnosing, and implementing individualized educational programs to meet the needs of the disabled populations. May include either teaching or coaching experiences. (006999)

KINE 621 Research on Teaching and Learning in Physical Education 3.0 Fa/Spr

Prerequisites: KINE 410 or KINE 484 or other appropriate methods courses.
This course helps graduate students analyze, synthesize, and evaluate the research on teaching and learning in physical education. Content includes systematic observation, qualitative studies, curriculum theory/design, and the enhancement of student learning K-12. (007045)

KINE 622 Adapted Program Implementation 3.0 Fall

Prerequisites: Faculty permission.
The organization, administration, planning, and evaluation of adapted physical activity programs across the lifespan. This course is designed for students who are interested in working with individuals with disabilities in a variety of settings. Programming placements may be selected from preschool programs, public school settings, community-based programs, or programs for older adults. (007046)

KINE 624 Biomechanical Analysis 3.0 Fa/Spr

Prerequisites: KINE 322 and basic computer literacy, faculty permission.
Introduction to research in biomechanics. Emphasis is on quantitative videographic techniques of sport and exercise activities. Other technological and bibliographic research methods are covered. Special fee required; see the Class Schedule. (015556)

KINE 625 Seminar in Biomechanics of Sports Techniques 3.0 Spring

An in-depth analysis of the literature concerning the biomechanical analysis of selected sports techniques. You may take this course more than once for a maximum of 6.0 units. ABC/no credit grading only. (007047)

KINE 658 History of Physical Education and Sport in the United States 3.0 Inquire

The history of physical education and sport in the United States. Major emphasis is placed upon the relationships of physical education and sport as they interact with other social phenomena. (007052)

KINE 661 Current Trends and Problems in Physical Education 3.0 Fa/Spr

Trends in physical education, instructional practices, and administration of physical education. Review of current literature in physical education. 2.0 hours activity, 2.0 hours seminar. (007053)

KINE 662 Physical Education and Sport Around the World 3.0 Fa/Spr

Prerequisites: Faculty permission.
The course is devoted to the study of physical education (sport, dance, play, and exercise) programs in a variety of countries. Countries representative of the following geographic zones or political persuasion will be selected: (1) The British Isles; (2) Continental Europe; (3) The African Continent; (4) the American Continents; and (5) the Pacific and Far East and the Middle East. (007054)

KINE 664 Theory of Experiential Education 3.0 Fa/Spr

Prerequisites: KINE 460.
This course is a detailed study of the philosophical, psychological, and sociological foundations of experiential education. Central to the course is the examination of the writings of philosophers/educators such as John Dewey, William James, Kurt Hahn, and Willie Unsoeld; as well as contemporary scholars. (007020)

KINE 678 Exercise and Aging 3.0 Fa/Spr

This course deals with the aging process and how exercise influences this process. Theories of aging will be presented from both a Western medicine point of view and an Eastern tradition point of view. The relevant physiology of aging will be considered from a "normal" aging perspective and from the perspective of degenerative disease development. Optimal exercise strategies will be discussed with respect to a healthy aging process. (007055)

KINE 679 Seminar in Biological Foundations of Physical Education 3.0 Fall

Prerequisites: KINE 602, faculty permission.
Immediate and long-range adaptations of the body to exercise. Physiological limits and work capacities in relation to age, sex, diet, environmental factors, and the nature of activity. (007039)

KINE 680 Seminar in Environmental Physiology 3.0 Spring

Prerequisites: KINE 323.
Physiological function in special environments, such as high altitude, space, elevated pressure, extreme temperatures, and polluted environments will be presented. Special consideration will be given to exercising in these environments. (007056)

KINE 681 Exercise Management - Chronic Disease and Disabilities 3.0 Inquire

Prerequisites: KINE 322, KINE 323, KINE 480, and faculty permission.
This seminar is for students and health professionals who desire an in-depth discussion of the role of physical exercise as a medically recognized modality in conjunction with chronic disease and disabilities. This class is designed for all people who are currently working within the medical profession and for those students who are preparing for future careers in paramedical vocational fields. This course will present the most recent research and publications available for the exercise physiology working with individuals who suffer from chronic disease and existing physical disabilities. (007057)

KINE 682 Exercise Cardiology 3.0 Inquire

Prerequisites: KINE 322, KINE 480, KINE 482, and faculty permission.
This seminar course is for students and health professionals who desire an in-depth discussion of cardiology as it relates to exercise physiology. Exercise will be viewed both in terms of minimizing risk factors and as a cardiac stressor. The role of physical exercise in generating risk, such as excessive free radicals and potassium, and as a cardiac trigger, as in sudden death and heart attack, will be explored. Cardiac rehabilitation will be related to exercise prescription. This class is designed for all people who are currently working within the medical profession and for those students who are preparing for future careers in paramedical vocational fields. This course will consider the most recent research and publications available for exercise physiologists in working with individuals who experience cardiac disease. (007058)

KINE 683 Bioenergetics 3.0 Inquire

Prerequisites: BIOL 103, BIOL 104, CHEM 108, KINE 322, KINE 323.
Cellular and molecular adaptations of muscle to exercise and training. How cellular events effect whole body physiology during exercise. (007026)

KINE 689 Practicum in Athletic Training Education 3.0 Fa/Spr

Prerequisites: Admission to the Athletic Training Education Option or faculty permission.
This seminar style course gives a platform on which to discuss the experiences at students' assigned clinic sites. Students are responsible for providing case studies each week from their clinical assignments and interact with peers in solving problems with difficult cases or situations. Students are presented with new or varying treatments and assess protocols or possible rehabilitation programs that may be applicable to the case studies. You may take this course more than once for a maximum of 6.0 units. (007059)

KINE 690 Seminar in Athletic Training Education 3.0 Fall

Prerequisites: Admission to the Athletic Training Education Option or faculty permission.
This seminar style course examines the complexity of teaching athletic training courses and the specific skills associated with the profession. The evolution of athletic training education is discussed from its early history to the new competencies in athletic training accreditation programs. Emphasis is on the cognitive, clinical, and psycho-motor aspects of athletic training education and the means by which each should be addressed in order to successfully educate a student athletic trainer. In addition, educational learning styles are identified and explored. (007060)

KINE 697 Independent Study 1.0-3.0 Fa/Spr

This course is a graduate-level independent study offered for 1.0-3.0 units. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. (007062)

KINE 699P Master's Project 1.0-6.0 Fa/Spr

Prerequisites: See the department secretary.
This course is offered for 1.0-6.0. You must register directly with a supervising faculty member. The project is the culminating graduate experience in which you can enroll in lieu of the thesis where the end result is a tangible product. Examples might include facilities planning, compilation of data, construction of a course of study, construction of teaching aids, publication of manuals, or producing a dance production. In each example there will be a written component intended to describe the process, the end result, and the candidate's competence in descriptive writing. You may take this course more than once for a maximum of 3.0 units. (007068)

KINE 699T Master's Thesis 1.0-6.0 Fa/Spr

Prerequisites: See the department secretary.
This course is offered for 1.0-6.0. You must register directly with a supervising faculty member. You may take this course more than once for a maximum of 6.0 units. (007066)
All activity courses, except beginning, require permission of the instructor. Unless otherwise noted, beginning activity courses may be taken twice for credit; intermediate and advanced courses may each be taken up to four times for credit.