

KINESIOLOGY
Exercise Science Option, B.S. (120 Units)
Valid for Catalog Years: 2013/2014 to 2020/2021

Kinesiology Core Lower Division Requirements **9 Units**

- KINES 1: Introductory Principles and Techniques for Physical Fitness Development (3) _____
- KINES 32: Lifetime Fitness and Wellness (2) (**GE Area E**) _____
- AND** Concurrent Enrollment in any Kinesiology Activity Course (1) _____
- KINES 33: Foundation of Sport Exercise Psychology (3) _____

Exercise Science Tier 1 (Lower Division) Requirements **8 Units**

- BIOL 67A: Human Anatomy & Physiology I (*Pre-Requisite*: BIOL 1A & CHEM 1A/1AL [or 3A]; *OR* BIOL 20) (4) _____
- BIOL 67B: Human Anatomy & Physiology II (*Pre-Requisite*: BIOL 67A) (4) _____

Exercise Science Tier 2 (Upper Division) Requirements **6 Units**

- KINES 116: Fundamentals of Biomechanics (3) (*Pre-Requisite*: BIOL 33 *OR* BIOL 67A) _____
- KINES 118: Fundamentals of Exercise Physiology (3) (*Pre-Requisite*: BIOL 33 *OR* BIOL 67A & BIOL 67B) _____

Exercise Science Tier 3 Requirements (Senior Standing [90+ Units] Required) **12 Units**

- KINES 119: ECG and Clinical Exercise Physiology (3) (*Pre-Requisite*: KINES 118; *can be taken concurrently*) _____
- KINES 163: Fitness and Wellness (3) (*Pre-Requisite*: KINES 32 & KINES 118; *can be taken concurrently*) _____
- KINES 165: Performance Related Fitness (3) (*Pre-Requisite*: KINES 116 & 118 or KINES 137; *can be taken concurrently*) _____
- KINES 167: Integrative Exercise Science (3) (*Pre-Requisite*: KINES 116 & 118; *can be taken concurrently*) _____

Kinesiology Exercise Science General Requirements **10 Units**

- KINES 109: Motor Learning (3) _____
- OR** KINES 110: Motor Development (3) _____
- KINES 121: Body Composition: Theory, Principles, and Management (3) (*Pre-Requisite*: KINES 32) _____
- KINES 137: Structural Biomechanics (3) (*Pre-Requisite*: BIOL 67A or BIOL 33) _____
- Select any KAC course (1) **OR** ATHL 100 (*Open to Athletes only*) (1) _____

Exercise Science Electives (Select 24 units from the following; 16 units for ADT students) **24 Units**

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| <p><u>BIOL 1A</u>: Introductory Biology (GE B2) (4) _____</p> <p><u>BIOL 1B & 1BL</u>: Introductory Biology (<i>BIOL 1A</i>) (4) _____</p> <p><u>BIOL 10</u>: Life Science (GE B2) (3) _____</p> <p><u>BIOL 20</u>: Introductory Microbiology (<i>CHEM 1A/1AL or CHEM 3A</i>) (4) _____</p> <p><u>BIOL 102</u>: Genetics (<i>BIOL 1A, BIOL 1B/1BL, and CHEM 8 or CHEM 128A; CHEM 8 or 128 can be concurrent</i>) (3) _____</p> <p><u>BIOL 103</u>: Cellular Biology (<i>BIOL 102, CHEM 150 or 155A</i>) (3) _____</p> <p><u>BIOL 144</u>: Neuroanatomy (<i>BIOL 33 or BIOL 64 or BIOL 65</i>) (4) _____</p> <p><u>BIOL 166</u>: Neurophysiology (<i>BIOL 33 or BIOL 67A or BIOL 67B or BIOL 103 or BIOL 162</i>) (3) _____</p> <p><u>CHEM 1A & 1AL</u>: General Chemistry 1A (GE B1) (5) _____</p> <p><u>CHEM 1B & 1BL</u>: General Chemistry 1B (5) _____</p> <p><u>CHEM 3A</u>: Introductory General Chemistry (GE B1) (4) _____</p> <p><u>CHEM 3B & 3BL</u>: Introductory Organic and Biochemistry (<i>CHEM 3A</i>) (4) _____</p> <p><u>CHEM 8</u>: Elementary Organic Chemistry (<i>CHEM 1B or 3A</i>) (3) _____</p> <p><u>CHEM 128A/129A</u>: Organic Chemistry/Organic Chemistry Lab (<i>CHEM 1B or CHEM 8; 129A concurrently w/ 128A</i>) (5) _____</p> <p><u>CHEM 128B/129B</u>: Organic Chemistry/Organic Chemistry Lab (<i>CHEM 129A; 129B concurrently w/ 128B</i>) (5) _____</p> <p><u>CHEM 150</u>: General Biochemistry (<i>CHEM 3B or CHEM 8, or both CHEM 128A and CHEM 128B</i>) (3) _____</p> <p><u>CHEM 155A</u>: Fundamentals of Biochemistry (<i>CHEM 128B</i>) (3) _____</p> <p><u>MATH 11/11L</u>: Elementary Statistics (GE B4) (3) _____</p> | <p><u>NUTR 53</u>: Nutrition and Health (GE E) (3) _____</p> <p><u>NUTR 54</u>: Elementary Nutrition (3) _____</p> <p><u>NUTR 147</u>: Nutrition and the Athlete (<i>NUTR 53 or 54</i>) (3) _____</p> <p><u>NUTR 153</u>: Advanced Nutrition (<i>NUTR 54, BIOL 67A, BIOL 67B, and CHEM 150</i>) (3) _____</p> <p><u>PH 48</u>: First Responder and Emergency Care (3) _____</p> <p><u>PH 92</u>: Public Health Statistics (3) _____</p> <p><u>PH 109</u>: Epidemiology of Disease (<i>PH 92, MATH 11, PSYCH 42, or DS 73</i>) (3) _____</p> <p><u>PH 114</u>: Health Behavior (3) _____</p> <p><u>PH 128S</u>: Holistic Health and Alternative Medicine (MI) (3) _____</p> <p><u>PH 141</u>: Applied Ergonomics (3) _____</p> <p><u>PHYS 2A</u>: General Physics (<i>MATH 6 or DS 71 or MATH 75/75A or MATH 70</i>) (GE B1) (4) _____</p> <p><u>PHYS 2B</u>: General Physics (<i>PHYS 2A w/ C grade</i>) (4) _____</p> <p><u>PSYCH 10</u>: Introduction to Psychology (GE D3) (3) _____</p> <p><u>PSYCH 42</u>: Introductory Statistics (4) _____</p> <p><u>PSYCH 66</u>: Abnormal Psychology (3) _____</p> <p><u>PSYCH 155</u>: Developmental Psychology (4) _____</p> <p><u>PSYCH 169</u>: Psychological Aspects of Physical Disability (3) _____</p> <p><u>Any KINES Academic Course</u> (<i>other than those required for the Exercise Science option</i>) _____</p> <p><u>Any Additional KAC Course</u> (<i>no more than three additional KAC courses can be applied to the major; no more than 1 unit of KINES 43; repeated KAC courses cannot be counted</i>) _____</p> |
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Remaining Elective Units: _____

Total Units Required in Major	69 units
Total Units Required in General Education	49 units
General Electives Needed	0-17 units

KINESIOLOGY

Exercise Science Option, B.S. (120 Units) Valid for Catalog Years: 2013/2014 to Current

For assistance or to schedule an advising appointment, please contact the **CHHS Advising and Career Development Center:** 559-278-5027, McLane Hall 194

Student Name: _____

Student ID: _____

Catalog Year: _____

	Year 1 (Freshman)		Year 2 (Sophomore)		Year 3 (Junior)		Year 4 (Senior)	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Major	Lower Division GE	KINES 1 (3 Units)	GE Area E KINES 32 (2 Units)	BIOL 67B (4 Units)	KINES 33 (3 Units)	KINES 121 (3 Units)	KINES 137 (3 Units)	KINES 165 + Lab (3 Units)
	Lower Division GE	Lower Division GE	KAC (1 Unit)	KAC or ATHL 100 (1 Unit)	KINES 116 + Lab (3 Units)	KINES 109 or 110 (3 Units)	KINES 119 (3 Units)	KINES 167 (3 Units)
	Lower Division GE	Lower Division GE	BIOL 67A (4 Units)	Lower Division GE	KINES 118 + Lab (3 Units)	<i>KINES Elective</i>	KINES 163 (3 Units) + Lab	<i>KINES Elective</i>
	GE B4 (MATH 11 Rec.)	Lower Division GE	Lower Division GE	Upper Division GE	Upper Division GE	<i>KINES Elective</i>	<i>KINES Elective</i>	<i>KINES Elective</i>
	B2 & B3 (BIOL 1A or 10 Rec.)	B1 & B3 (CHEM 1A or 3A Rec.)	Lower Division GE	Upper Division GE	Multicultural International (MI)	UDWS (W Course or Exam)	<i>KINES Elective</i>	<i>KINES Elective</i>
Milestones			Science Pre-Reqs Completed		Anatomy/ Physiology Completed	KINES 116/118 Completed		Tier 3 Sequence Completed

Elective Options:

Athletic Training M.S. Pre-Requisites¹

- Biology w/ Lab (BIOL 10 or BIOL 1A)
- Chemistry w/ Lab (CHEM 3A)
- Physics w/ Lab (PHYS 2A)
- 2 Semesters of Anatomy & Physiology w/ Lab (BIOL 67A & 67B)
- General Psychology or Sport Psychology (PSYCH 10 or KINES 33)
- Fundamentals of Biomechanics (KINES 116)
- Exercise Physiology (KINES 118)
- Nutrition or Fitness & Wellness (NUTR 53 or KINES 163)
- Statistics (PH 92 or MATH 11)
- Introduction to Athletic Training (KINES 38)
- Preliminary lab in Athletic Training (KINES 43) **OR** 100 hours of observation
- First Aid & CPR or EEC Card (KINES 48 preferred; PH 49, or PH 49)

Doctor of Physical Therapy Pre-Requisites¹

- Human Anatomy w/ Lab (BIOL 67A or BIOL 64)
- Human Physiology w/ Lab (BIOL 67B or BIOL 65)
- Life Science w/ Lab [Beginning Fall 2022] (BIOL 1A or BIOL 10)
- Part One of General Chemistry series w/ Lab (CHEM 1A/1AL **OR** CHEM 3A)
- Continuation of General Chemistry series w/ Lab (CHEM 1B/1BL **OR** CHEM 3B/3BL)
- Semester One of General Physics w/ Lab (PHYS 2A)
- Semester Two of General Physics w/ Lab (PHYS 2B)
- General Psychology, Developmental Psychology, or Lifespan Psychology (PSYCH 10, 123, or 155)
- Abnormal Psychology or Psychological Aspects of Disability (PSYCH 66 or 169)
- Basic Statistics (MATH 11, PH 92, or PSYCH 42)

Advising Notes

1. Students interested in Athletic Training or Physical Therapy should consult the respective department for program advising, additional admission criteria, and equivalent pre-requisites.
2. A grade of C or higher in all required coursework is necessary for successful completion of the major. Any course required as a prerequisite must be completed with a grade of C or better before registration in the subsequent courses
3. CR/NC grading is not permitted in courses for the kinesiology major, except in those courses which are designated CR/NC grading only.
4. Courses taken within the Kinesiology major may be used toward general education requirements, a minor (see departmental minors) or a supplemental credential. Consult the appropriate department for further information.
5. Students majoring in kinesiology may count a maximum of 12 units of activity courses (ATHL, KAC, DANCE) toward the 120 units required for a bachelor's degree. Repeat credit towards the major is not allowed in these courses.

1999-2017 GENERAL EDUCATION (G.E.) REQUIREMENTS

NOTES: **A minimum of 51 G.E. units are required.** All classes are three or more semester units.
Engineering and Liberal Studies majors complete a different G.E. pattern--consult department advisor.

◆ FOUNDATION

Four courses: One in A1, one in A2, one in A3, & one in B4 for a minimum of 12 units.
FOUNDATION courses must be satisfied with a minimum "C" grade.

Area A - Fundamental Skills and Knowledge

- A1 Oral Communication:** Communication 3, 7, 8
A2 Written Communication: (Prerequisite for English 5B is passing 5A) English 5B, 10
A3 Critical Thinking: Africana Studies 20; Anthropology 30; Chicano & Latin American Studies 30; College of Science & Math 10; Communication 5; Computer Science 1; Geography 25; Interdisciplinary 50; Natural Science 4; Philosophy 25, 45; Sociology 3, 3S; Women's Studies 12
B4 Quantitative Reasoning: (Prerequisite: ELM of 50 or higher or pass remediation) Criminology 50, Decision Sciences 71; Mathematics 11, 45, 70, 75, 75A

Course/Units/Grade

A1 _____
 A2 _____
 A3 _____
 B4 _____

◆ BREADTH

A maximum of two courses from one department or program may be applied to satisfy **BREADTH** requirements.

Area B - Physical Universe and Its Life Forms

Two courses: One in B1 and one in B2--see above for B4

- B1 Physical Sciences:** (Prerequisite: Completion of B4) Chemistry 1A & 1AL, 3A, 10; Earth & Environmental Sciences 1, 1V, 4; Physical Science 21; Physics 2A, 4A & 4AL, 10
B2 Life Sciences: Biology 1A, 10, 11, 12
B3 Laboratory Component: B1 or B2 must have a lab (All B1 and B2 courses taken at Fresno State have a mandatory lab component.)

B1 _____
 B2 _____
 B3 _____

Area C - Arts and Humanities

Three courses: One in C1, one in C2, and a third from C1 or C2

- C1 Arts:** Armenian Studies 20; Art 1, 20, 40, 50; Art History 10, 11; Chicano & Latin American Studies 9; Drama 22, 62; English 41, 43, 44; Music 9, 74, 75
C2 Humanities: Arabic 1A, 1B; Armenian 1A, 1B, 2A; Chinese 1A, 1B; Communicative Disorders & Deaf Studies 90, 92; English 20, 30; French 1B, 2A, 2B; German 1B, 2A, 2B; Greek 1A, 1B; Hebrew 1A; Hmong 1A, 1B; Humanities 10, 11, 15, 20; Italian 1A, 1B, 2A, 2B; Japanese 1A, 1B; Latin 1A, 1AH, 1B; Linguistics 10; Persian 1A, 1B; Philosophy 1, 2, 10, 20; Portuguese 1A, 1B; Spanish 1B, 2A, 2B, 3, 4A, 4B

C1 _____
 C2 _____
 C1 or C2 _____

Area D - Social, Political & Economic Institutions & Behavior, Historical Background

One course in each sub-area (Prerequisite: Completion of A2 for those with EPT score below 147)

- D1 American History:** History 11, 12
D2 American Government: Political Science 2
D3 Social Science: Africana Studies 10, 15, 27; Agricultural Business 1; American Indian Studies 50; Anthropology 2, 3; Armenian Studies 10; Asian American Studies 15; Child & Family Studies 31; Chicano & Latin American Studies 3, 5; Communicative Disorders & Deaf Studies 98; Criminology 10; Economics 25, 40, 50; Geography 2, 4; History 20, 21; Industrial Technology 20; Jewish Studies 10; MCJ 1; Middle East Studies 10; Political Science 1; Psychology 10; Sociology 1 or 1S; Women's Studies 10

D1 _____
 D2 _____
 D3 _____

Area E - Lifelong Understanding and Self-Development Three units

- E Lifelong Understanding & Self-Development:** Animal Science 67; Art 13; Child & Family Studies 38, 39; College of Science & Math 15S; Dance 16, 70; Drama 32; Finance 30; Gerontology 10S, 18, 111; Kinesiology 32 & concurrent enrollment in KAC 6, 21, 24, 31, 33, 39, or 103; Linguistics 30; Nutrition 53; Peace and Conflict Studies 110; Psychology 61; Public Health 90, 91, 110; Recreation Administration 80; University 1; Women's Studies 18

E _____

UPPER DIVISION G.E. CONSISTS OF 12 UNITS

IB, IC, ID, and MI courses can be taken no sooner than the term in which 60 units of coursework are completed. They may **not** be selected from the primary major department.

◆ INTEGRATION Three upper division courses--one in each area

- IB Physical Universe and Its Life Forms:** (Prerequisite: Completion of FOUNDATION and Area B)
 Anthropology 161; Chemistry 170; Computer Science 100; Earth & Environmental Sciences 112, 167, 168; Geography 115, 128; Natural Science 115, 120, 121, 125; Physical Science 131, 168; Physics 100; Plant Science 105; Public Health 161
IC Arts and Humanities: (Prerequisite: Completion of FOUNDATION and Area C)
 Africana Studies 129; Armenian 148; Art 102; Arts & Humanity 105; Dance 171; Drama 163; English 101, 102, 103, 112, 113, 114, 174; French 109, 149; Humanities 104, 108, 110, 118; Interdisciplinary Art Studies 108; Linguistics 115, 130, 138; Music 170A, 171, 187; Philosophy 120, 150, 151; Spanish 125, 129
ID Social, Political and Economic Institutions and Behavior, Historical Background:
 (Prerequisite: Completion of FOUNDATION and Area D) Africana Studies 144; Agricultural Business 155; American Indian Studies 103; Anthropology 116W, 145; Chicano & Latin American Studies 114; Criminology 101, 120, 153; Economics 146, 167, 176, 183; Geography 173; Gerontology 100; History 101, 154; Jewish Studies 154; Kinesiology 111; MCJ 178; Peace and Conflict Studies 100; Social Science 110; Sociology 131, 143, 163; Women's Studies 101, 149

IB _____
 IC _____
 ID _____

◆ MULTICULTURAL/INTERNATIONAL One upper division course

- MI** (Prerequisite: Completion of FOUNDATION and Area D)
 Africana Studies 150, 164; Anthropology 105W, 120, 123, 125; Asian American 110; Business Administration 104; Chicano & Latin American Studies 160, 170; Communication 164; Communicative Disorders & Deaf Studies 139; Economics 181; Geography 167; Gerontology 161; History 186; Humanities 105, 140; Interdisciplinary Capstone 177, 188S; Linguistics 147; Marketing 100S; MCJ 175, 176, 179; Philosophy 131, 132; Political Science 120; Public Health 104, 128; Recreation Administration 130; Social Science 180; Social Work 136; Sociology 111, 142; Women's Studies 110, 120, 135

MI _____

TOTAL UNITS _____