

BS in Kinesiology - *Option in Exercise Science*  
Major Requirements Worksheet  
2019-2020 Catalog

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_

Grade	Course Number & Title (units)	Need to Take	Prerequisites†
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**Complete ALL of the following core courses:**

	KIN 201: Introduction to Kinesiology (3)		open to KIN and Pre-KIN majors
	KIN 300: Biomechanics of Human Movement (3)		a 'C' or better in BIOL 208 corequisite: KIN 201
	KIN 301: Exercise Physiology (3)		a 'C' or better in BIOL 207 corequisite: KIN 201
	KIN 312: Motor Control & Learning (3)		a 'C' or better in all of the following: BIOL 207, 208; PSY 100 corequisite: KIN 201
	KIN 332: Sociocultural Dimensions of Sport & Human Movement (3)		GE foundations; junior standing; completion of GVAR; open to Pre-KIN majors; corequisite: KIN 201

**Complete ALL of the following lower division courses:**

	BIOL 207: Human Physiology (4)		GE foundations
	BIOL 208: Human Anatomy (4)		a 'C' or better in one of the following: ART 372, BIOL 201, BIOL 205, BIOL 207, BIOL 212, BIOL 311, CHEM 140, or DANC 261
	CHEM 111A: General Chemistry (5)		Passing score on Chemistry Placement Exam; either a 'C' or better in MATH 112A, or MATH 112B or higher (may be taken concurrently)
	CHEM 111B: General Chemistry (5)		a 'C' or better in CHEM 111A and in MATH 112B or higher
	KIN 263: Techniques of Physical Fitness (2)		open to Pre-KIN majors
	PHYS 100A: General Physics (4)		MATH 109 or 111 or 112A or 113 or 119A or 122
	PHYS 100B: General Physics (4)		PHYS 100A or PHYS 151; MATH 109 or 111 or 112A or 113 or 119A or 122
	PSY 100: General Psychology (3)		GE composition ready
	<b>ONE (1)</b> of the following options: <input type="checkbox"/> MATH 113 (or higher): Precalculus Algebra (3) <b>OR</b> <input type="checkbox"/> MATH 112A: Essential Algebra A (3) <b>AND</b> <input type="checkbox"/> MATH 112B: Essential Algebra B (3)		<b>113:</b> appropriate math placement  <b>112A:</b> appropriate math placement <b>112B:</b> a 'C' or better in MATH 112A

**Complete ALL of the following upper division courses:**

	KIN 405: Cardiopulmonary Aspects of Health-Related Exercise Programs (4)		KIN 301; KIN 210 or current First Aid/CPR certificates
	KIN 430: Motor Control Principles & Theory (3)		KIN 312
	<b>ONE (1)</b> of the following: <input type="checkbox"/> KIN 431: Scientific Foundations of Locomotion (3) <input type="checkbox"/> KIN 441: Applied Biomechanics: Lifting & Work Capacity (3) <input type="checkbox"/> KIN 442: Biomechanics Laboratory Practicum (3)		<b>431:</b> KIN 300, 312 <b>441:</b> KIN 300 <b>442:</b> a 'C' or better in KIN 300
	<b>ONE (1)</b> of the following: <input type="checkbox"/> BIOL 260: Biostatistics (3) <input type="checkbox"/> KIN 483: Statistics in Human Movement Science (3)		<b>260:</b> BIOL 201 or BIOL 207 or 211 or MICR 200; a 'C' or better in MATH 111 or 113 or 119A or 122  <b>483:</b> KIN 300, 301, 312
_____	<b>THREE (3)</b> of the following: <input type="checkbox"/> KIN 339: Psychology of Sport Behavior & Athletic Performance (3) <input type="checkbox"/> KIN 432: Applied Motor Learning (3) <input type="checkbox"/> KIN 462: Advanced Strength & Conditioning (3) <input type="checkbox"/> KIN 465: Clinical Exercise Electrocardiography (3) <input type="checkbox"/> KIN 466: Biochemical & Hormonal Adaptations to Physical Activity (3)	_____	<b>339:</b> PSY 100; GE foundations; junior standing; open to Pre-KIN majors <b>432:</b> KIN 300, 312 <b>462:</b> KIN 300, 301 <b>465:</b> none <b>466:</b> KIN 301; CHEM 111A

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Grade	Course Number & Title (units)	Need to Take	Prerequisites†
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**Complete 12 units from the following elective courses, with at least 3 units from KIN:**

	<input type="checkbox"/> BIOL 200: General Biology (4)		GE foundations
	<input type="checkbox"/> BIOL 201: General Microbiology for Health Professionals (4)		GE foundations; a 'C' or better in CHEM 111A or 140
	<input type="checkbox"/> BIOL 211: Introduction to Evolution & Diversity (4)		corequisite: CHEM 111A
	<input type="checkbox"/> BIOL 212: Introduction to Cell & Molecular Biology (4)		a 'C' or better in BIOL 211 and CHEM 111A corequisite: CHEM 111B
	<input type="checkbox"/> BIOL 213: Introduction Ecology & Physiology (4)		a 'C' or better in BIOL 211, 212, CHEM 111B
	<input type="checkbox"/> BIOL 301: Biology of Human Aging (3)		a 'C' or better in BIOL 200 or 205 or 207
	<input type="checkbox"/> BIOL 311: General Microbiology (4)		a 'C' or better in BIOL 211, 212, CHEM 111B
	<input type="checkbox"/> BIOL 340: Molecular Cell Biology (3)		a 'C' or better in BIOL 211, 212
	<input type="checkbox"/> CHEM 227: Fundamentals Organic Chemistry (3)		a 'C' or better in CHEM 111A recommended prerequisite: CHEM 111B
	<input type="checkbox"/> CHEM 448: Fundamentals of Biological Chemistry (3)		a 'C' or better in CHEM 220B or 227
	<input type="checkbox"/> GERN/NUTR 439: Nutrition & Aging (3)		NUTR 132 or BIOL 207 or BIOL 301 or GERN 400
	<input type="checkbox"/> HSC 150: Medical Terminology (1)		none
	<input type="checkbox"/> KIN 302: Structural Kinesiology (3)		BIOL 208
	<input type="checkbox"/> KIN 315: Motor Development (3)		BIOL 207; BIOL 208; PSY 100
	<input type="checkbox"/> KIN 320: Adapted Physical Education (3)		BIOL 208
	<input type="checkbox"/> KIN 339: Psychology of Sport Behavior & Athletic Performance* (3)		PSY 100; GE foundations; junior standing; open to Pre-KIN majors
	<input type="checkbox"/> KIN 367: Fitness & the Aging Process (3)		KIN 300, 301, 312, and 339
	<input type="checkbox"/> KIN 431: Scientific Foundations of Locomotion* (3)		KIN 300, 312
	<input type="checkbox"/> KIN 432: Applied Motor Learning* (3)		KIN 300, 312
	<input type="checkbox"/> KIN 441: Applied Biomechanics: Lifting & Work Capacity* (3)		KIN 300
	<input type="checkbox"/> KIN 442: Biomechanics Laboratory Practicum* (3)		a 'C' or better in KIN 300
	<input type="checkbox"/> KIN 462: Advanced Strength & Conditioning* (3)		KIN 300, 301
	<input type="checkbox"/> KIN 463: Kinesiology Exercise Physiology Laboratory Practicum (3)		a 'C' or better in KIN 301
	<input type="checkbox"/> KIN 465: Clinical Exercise Electrocardiography* (3)		BIOL 207; KIN 301
	<input type="checkbox"/> KIN 466: Biochemical & Hormonal Adaptations to Physical Activity* (3)		KIN 301; CHEM 111A
	<input type="checkbox"/> KIN 488A: Fundamentals in Sport Training & Research (3)		a 'C' or better in KIN 300, 301, or 312; instructor consent
	<input type="checkbox"/> KIN 488B: Advanced Sport Training & Research (3)		a 'C' or better in KIN 488A
	<input type="checkbox"/> KIN 494: Exercise Science Internship (3)		see catalog
	<input type="checkbox"/> KIN 495: Supervised Laboratory Methods (1-3)		junior standing; instructor consent
	<input type="checkbox"/> KIN 497: Independent Study (1-3)		senior standing; department consent
	<input type="checkbox"/> NUTR 132: Introductory Nutrition (3)		corequisite: one GE foundation course
	<input type="checkbox"/> NUTR 331: Nutrition through the Life Cycle (3)		BIOL 207; NUTR 132; department consent
	<input type="checkbox"/> PSY 327: Introduction to Human Factors (3)		GE foundations; junior standing
	<input type="checkbox"/> PSY 370: Abnormal Psychology (3)		PSY 100

\* if not taken as a major requirement

†Prerequisites are subject to change; consult the University Catalog ([www.csulb.edu/catalog](http://www.csulb.edu/catalog)) for the most recent updates

✓A 'C' or better is required in all courses

✓All KIN courses are blocked to declared majors only (not pre-majors) unless otherwise specified in the prerequisites column

✓Total units required for ES option: 83-86