

CALIFORNIA STATE UNIVERSITY, FRESNO
DEPARTMENT OF KINESIOLOGY

MASTER OF ARTS DEGREE IN KINESIOLOGY EXERCISE SCIENCE OPTION

COURSES	UNITS
I. <u>Core Courses</u> <i>(Required of all Kinesiology Graduate Students)</i>	6
KINES 230 Statistical Inference in Kinesiology	3
KINES 231 Research Methods in Kinesiology	3
II. <u>Required Courses within Program</u> <i>(Select 5 or more from the following:)</i>	15-21
KINES 222 Biomechanics	3
KINES 233 Advanced Exercise Physiology	3
KINES 235 Exercise Physiology: Instrumentation & Technology	3
KINES 237 Design & Implementation of Resistive Training Programs	3
KINES 238 Exercise Testing, ECG, and Prescription	3
KINES 265 Psychobiology of Sport & Exercise	3
KINES 285 Internship in Kinesiology and Sport	3
III. <u>Electives within Program</u> <i>(Including any not selected from Area II.)</i>	3 - 6
Any KINES 200-level course or any approved outside area course	3
IV. <u>Culminating Experience</u> <i>(Select 1)</i>	6
KINES 298 (Project) or KINES 299 (Thesis)	6
Comprehensive Exam, plus KINES 285 - Internship and one KINES 200-level or approved outside area course	6
<u>TOTAL NUMBER OF UNITS</u>	30

Note:

**With advisement, Student may select either of the Culminating Experiences.

Approved Electives in Outside Areas: (Consult the Catalog for Prerequisites)

Biolog: 144 Neuroanatomy 162 Comparative Animal Physiology 163 Advanced Human Physiology 165 Endocrinology 166 Neurophysiology 167 Pathophysiology	PhTh: 119 Anatomy of the Append. Skeleton 125 Applied Human Anatomy 126 Applied Pathophysiology 127 Neuromusc. Processes in Human Devel. & Aging
Chem: 128 Organic Chemistry 150 General Biochemistry 153 Physiolog. Chemistry and Metab.	Nutr: 153 Advanced Nutrition 160 Nutrition across the Life Cycle 223 Food, Nutrition, & Health

For students whose degree is other than Kinesiology or Physical Therapy, they may elect KINES 138, 139, or 148.

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**PREREQUISITES FOR STUDENTS WITH UNDERGRADUATE DEGREES IN DISCIPLINES
OTHER THAN PHYSICAL EDUCATION OR KINESIOLOGY
OR A NON-EXERCISE SCIENCE UNDERGRADUATE DEGREE**

With advisement, the student may be required to complete selected coursework in the following areas:

Previous coursework and experiences are taken into consideration when establishing the required foundational coursework.

KINES 35 or Biol 33 or (64 and 65)	*Human Anatomy and Physiology	3-8 units
Nutr 147	Nutrition and the Athlete OR	3 units
KINES 121	Body Composition: Theory, Principles & Management	3 units
KINES 137*	Structural Biomechanics OR	3 units
KINES 116*	Applied Biomechanics	3 units
KINES 118*	Applied Exercise Physiology	3 units
KINES 163	Fitness and Wellness OR	3 units
KINES 165	Performance Related Fitness	3 units
CHEM 155	Fundamentals of Biochemistry	3 units

*These courses must be completed *before* enrolling in graduate exercise science courses; however, graduate core coursework (KINES 230, and 231) may be taken before completion of these prerequisites. Success in this program requires a sound background in biological and physical sciences; students who are unsure of their preparation in these areas should seek advising regarding remedial work.