KINESIOLOGY (KINES)

KINES 520: Experimental Design and Methodology in Kinesiology
3 Credits
Research techniques, including methods, research design, techniques for data collection, as applied to relevant problems in Kinesiology.
Prerequisite: 3-credit 400-level statistics course

KINES 530: Issues in Athletic Training
3 Credits
Analysis of professional/academic issues related to athletic training; includes medical considerations, legal and professional developments, and current research.

KINES 540: History of Sport: Cultural and Social Dynamics
3 Credits
This seminar explores the literature, methodologies, theoretical challenges, and research questions confronting the field.

KINES 550: Seminar in Motor Control
3 Credits
Introduces the theory and practice behind the primary experimental methods used in biomechanics and motor control.

KINES 560: Psychophysiology of Movement
3 Credits
Basic concepts and principles of psychophysiology and their application for analyses of human movements.

KINES 565: Neurophysiological Basis of Movement
3 Credits
The basic understanding of neurophysiological structures and mechanisms involved in the generation of human voluntary movement.

KINES 570: Experimental Methods in Biomechanics and Motor Control
3 Credits
Introduces the theory and practice behind the primary experimental methods used in biomechanics and motor control.

KINES 580: Cardiovascular Physiology
3 Credits
In-depth study of the heart and circulatory system with emphasis on the effects of exercise on cardiovascular function.
Prerequisite: KINES484
Cross-listed with: PHSIO 577
KINES 579: Advanced Biomechanics of Human Motion
3 Credits
Biomechanical foundation of human movement and injury prevention.
Prerequisite: KINES484 ; MATH 141 or MATH 220

KINES 588: Scientific Writing in Kinesiology
3 Credits
Instruct students in writing grant proposals, abstracts, manuscripts, and effective presentations in their respective scientific fields of study in Kinesology. KINES 588 Scientific Writing in Kinesiology (3)

This course is intended to assist graduate students in writing grant proposals, abstracts, and manuscripts, as well as preparing effective presentations in their respective scientific field of study within the discipline of Kinesiology. Course objectives are to: 1. Increase technical proficiency in scientific writing, i.e., a grammatical structure, sentence structure, formatting, etc. 2. Promote the ability to write effective specific aims, hypotheses, and background statement portions of a grant proposals. 3. Understand the formulaic approach to writing effective scientific abstracts and manuscripts. 4. Expand the ability to prepare and present effective oral communications using a PowerPoint format. 5. Develop an understanding and appreciation for the peer review process associated with grant proposals and manuscripts.

Evaluation will be based on grading the following brief writing assignments: a manuscript abstract, the Introduction section of a manuscript, the Specific Aims page of an NIH-style grant proposal, and a set of PowerPoint slides for an abbreviated oral presentation. The course is to be offered every fall semester. Enrollment is limited to Kinesiology Department graduate students.

KINES 590: Colloquium
1-3 Credits/Maximum of 3
Continuing seminars which consist of a series of individual lectures by faculty, students or outside speakers.

KINES 590B: Exercise Physiology Colloquium
1 Credits/Maximum of 4
Continuing colloquia in exercise physiology which consists of individual lectures by outside speakers, students and faculty.

KINES 594: Research Topics
1-18 Credits/Maximum of 18
Supervised student activities on research projects identified on an individual or small-group basis.

KINES 596: Individual Studies
1-9 Credits/Maximum of 9
Creative projects, nonthesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.

KINES 597: Special Topics
1-9 Credits/Maximum of 9
Formal courses given infrequently to explore, in depth, a comparatively narrow subject that may be topical or of special interest.

KINES 597A: **SPECIAL TOPICS**
1-3 Credits

KINES 600: Thesis Research
1-15 Credits/Maximum of 999
No description.

KINES 601: Ph.D. Dissertation Full-Time
0 Credits/Maximum of 999
No description.

KINES 602: Supervised Experience in College Teaching
1-3 Credits/Maximum of 6
Preparation and presentation of materials in lecture and laboratory classes under the supervision of a full-time faculty member.
Prerequisite: appointment as a Graduate Teaching Assistant in Health and Physical Education

KINES 610: Thesis Research Off Campus
1-15 Credits/Maximum of 999
No description.

KINES 611: Ph.D. Dissertation Part-Time
0 Credits/Maximum of 999
No description.