KINESIOLOGY (KINE)

KINE 5306  Sports Nutrition
3 Semester Credit Hours (3 Lecture Hours)
This course is designed to provide scientific evidence for the use of
nutrient ingestion to enhance sport performance and maintain optimal
health. Special emphasis will be placed on the chemical and biological
changes caused by the ingestion of specific nutrients. In this course
the student will learn to utilize current nutrition research to enhance
the athlete's energy systems within various categories of sport.

KINE 5307  Research Design in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
The application of fundamental research methods to the design and
development of a research proposal in kinesiology.

KINE 5308  Leadership in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
This course assists students in identifying and defining leadership in
formal and non-formal kinesiology settings. The theoretical foundations
interweave: (a) formation of self-identification and self-awareness as a
leader, (b) development of applied knowledge and skills, and (c) real-world
application of effectively functioning as both a follower and a leader, thus
developing a more complete and holistic leadership framework.

KINE 5311  Statistics in Kinesiology
3 Semester Credit Hours (3 Lecture Hours)
A study of basic statistical concepts and their application to research
problems in kinesiology. Topics include issues related to descriptive and
inferential statistics. Recommended
Prerequisite: KINE 4311.

KINE 5312  Sport Physiology
3 Semester Credit Hours (3 Lecture Hours)
This course expands basic undergraduate exercise physiology principles
and focuses on the role of exercise physiology in sports performance,
applied and research settings. Recommended

KINE 5313  Athletic Testing
3 Semester Credit Hours (3 Lecture Hours)
An advanced assessment course designed to provide techniques for
physiological, athletic, and sport-specific tests associated with athletic
performance. Test selection, test administration, data analysis, and
appropriate evaluation techniques will be presented.

KINE 5314  Principles of Strength and Conditioning
3 Semester Credit Hours (3 Lecture Hours)
The purpose of this course is to provide theoretical and practical
knowledge of the physiological, biomechanical, and administrative
aspects of designing and supervising strength and conditioning
programs for various populations.

KINE 5325  Program Design for Resistance Training
3 Semester Credit Hours (3 Lecture Hours)
This course presents information on the process of designing
scientifically based resistance training programs, modifying and adapting
programs to meet the needs of special populations, and understanding
how designing programs works in the real world.

KINE 5327  Sport Biomechanics
3 Semester Credit Hours (3 Lecture Hours)
This course provides an exploration of movement kinetics and kinematics
through the framework of sports, physical activity, and associated injury
mechanisms. Further emphases will be on identifying viable research
questions and appropriate methods (including instrumentation) to pursue
those questions. Recommended

KINE 5338  Motor Development in Sport
3 Semester Credit Hours (3 Lecture Hours)
This course addresses the theory and application of human motor
development as it relates to the acquisition of motor skills, with a focus
on sport performance. The course emphasizes how professionals in the
field of sport science should utilize this understanding to serve various
client populations throughout the lifespan.

KINE 5340  Sport Psychology
3 Semester Credit Hours (3 Lecture Hours)
A study of the theory and application of psychology as it applies to
human behavior in sport and physical activity.

KINE 5394  Professional Field Experience
3 Semester Credit Hours
A graduate-level field-based experience to provide the student the
opportunity to apply knowledge and theory related to exercise and sport
science. This course is an elective course and listed in the Supplemental
Course section of the degree plan. This course may also be taken at any
time during the student's degree with approval of their faculty mentor.

KINE 5397  Graduate Research Project in Kinesiology
1-3 Semester Credit Hours (1-3 Lecture Hours)
The research project is an alternative to the thesis and three semester
hours of credit. The project should be completed in one semester of work
with the possibility of more time depending upon the student's topic and
design. This is an involved process and the final product includes: 1)
Journal Abstract; 2) Journal Manuscript (choice of journal is decided by
project chair); 3) Poster Presentation; and 4) Power Point Presentation
(Defense). Unlike the thesis, all students that are fully accepted to the
program automatically are eligible for the research project.
Prerequisite: KINE 5307 and 5311.

KINE 5690  Professional Seminar
1-6 Semester Credit Hours (1-6 Lecture Hours)
PROFESSIONAL SEMINAR Contemporary issues in Kinesiology: topics
vary with professional identification of participants.

KINE 5696  Directed Individual Study
1-6 Semester Credit Hours
Thesis in progress requires departmental approval. Investigative study
on selected problems by students with particular needs. May be repeated
when topics vary.

KINE 5698  Thesis in Progress
3-6 Semester Credit Hours (3-6 Lecture Hours)
Students are required to successfully complete a thesis under the
direction and supervision of their thesis chair and committee members.
The thesis will require a minimum of two semesters of work and possibly
more depending upon their topic and design, thus students will be
allowed to register for three hours each semester. The thesis option is
designed for students that want to gain extensive experience in research
and/or greater knowledge about a specific topic area. It is also designed
for those that anticipate more advanced research (e.g., Ph.D.). Upon
completion of their work there is a thesis defense. The final product
includes: 1) Journal Abstract; 2) Journal Manuscript (choice of journal
is decided by thesis chair); 3) Poster Presentation; and 4) Power Point
Presentation (Defense).
Prerequisite: KINE 5307 and 5311.