

# GRADUATE COURSE OFFERINGS

The University of Wisconsin-Madison Department of Kinesiology offers graduate courses on various topics in the specialization areas of biomechanics, epidemiology, exercise physiology, motor control & behavior, occupational therapy, pedagogy, behavioral aspects/ psychology of physical activity, and therapeutic science (human occupation). Summary statements of courses offered during Semester 1 of the 2008-09 academic year appear below. The Department of Kinesiology offers the M.S. & Ph.D. degrees in Kinesiology and the M.S. degree in Therapeutic Science. For more information or to register, go to the Fall 2008-09 Timetable, <http://registrar.wisc.edu/timetable/> or contact the instructors noted below or contact the Kinesiology Graduate Program Office (phone: 608-262-8730; e-mail: [kinesgrad@education.wisc.edu](mailto:kinesgrad@education.wisc.edu)). Visit our web site: <http://www.education.wisc.edu/kinesiology>

**Department of Kinesiology - University of Wisconsin-Madison - 2000 Observatory Drive - Madison, WI 53706**

**KINES 600** *Advanced Exercise Psychology*

Instructor: Dr. Kelli Koltyn ([koltyn@education.wisc.edu](mailto:koltyn@education.wisc.edu))

4:00 - 6:30 p.m. Tues ..... 3 credits  
Designed for beginning graduate students, but advanced undergraduate students who have completed Kines 350 are encouraged to enroll. Readings, lecture, and discussion focus on the relationship between physical activity and mental health. Topics include psychological benefits of exercise, personality theory, perception, motivation, and adherence to physical activity programs. Emphasis is placed on the critical analysis of published research studies in this area of kinesiology.

**KINES 615** *Laboratory Techniques in Exercise Physiology*

Instructor: Dr. Bill Schrage ([wschrage@education.wisc.edu](mailto:wschrage@education.wisc.edu))

Lecture: 2:25 - 3:15 p.m. Thurs ..... 2 credits  
(Discussion: 3:30 - 6:25 p.m. Thurs)  
Students will become acquainted with: a blend of classic and new analytical methods & procedures used in laboratories investigating questions related to exercise physiology; interpreting and writing their results; and understanding the underlying principles.

**KINES 773** *Cardiovascular Adaptations to Environment & Exercise*

Instructor: Dr. Bill Schrage ([wschrage@education.wisc.edu](mailto:wschrage@education.wisc.edu))

12:30 - 3:00 p.m. Mon ..... 3 credits  
Examination of the response of the cardiovascular and respiratory systems to acute and chronic increases in functional demand. Adaptations at the cellular and molecular level as well as systemic adaptations will be considered.

**KINES 885** *Seminar in Occupation and Health*

Instructor: Dr. Elizabeth Larson ([blarson@education.wisc.edu](mailto:blarson@education.wisc.edu))

1:00 - 1:50 p.m. Mon ..... 1 credit  
This seminar gives graduate students an opportunity to critically examine and discuss current issues and trends in occupational therapy and rehabilitation research. Students will be required to present their own research and to provide critical feedback to others in a scholarly peer-review process. Guest speakers will be invited to present their research &/or topics to enhance students' research-related skills.

**KINES 900** *Seminar in Kinesiology*

Instructor: Dr. Gary Diffie ([diffie@education.wisc.edu](mailto:diffie@education.wisc.edu))

12:05 - 12:55 p.m., Fri. .... 1 credit  
Provides a forum for students, faculty and staff from the Dept. of Kinesiology and others to present and discuss research and current issues related to the field of Kinesiology. (Instructor subject to change.)

**KINES 991** *Research in Physical Activity - Theory and Design*

Instructors: Dr. Greg Gruben ([gruben@education.wisc.edu](mailto:gruben@education.wisc.edu)); and Dr. Peter van Kan ([vankan@education.wisc.edu](mailto:vankan@education.wisc.edu))

9:30 a.m. - 12:00 noon Wed ..... 3 credits  
Introduction to conducting scientific research. Topics include critical review of literature, experimental design, methods of scientific inquiry, scientific communication, & research ethics. Emphasis on developing individual research proposals through peer-review & oral presentation.

**THER SCI 713** *Neural Basis for Normal & Pathological Movement*

Instructor: Dr. Peter van Kan ([vankan@education.wisc.edu](mailto:vankan@education.wisc.edu)), and

1:30 - 4:00 p.m. Weds ..... 3 credits  
Provides an in-depth look at behavioral, anatomic, and neurophysiological aspects of motor control under normal and pathological conditions. Movement disorders covered in the course include those associated with cerebral cortex or brainstem stroke, basal ganglia dysfunction, and cerebellar disease. Open to graduate students in Kinesiology, Therapeutic Science, Neuroscience, Physiology, Anatomy, Biomedical Engineering, Veterinary Medicine, and related fields. Also open to advanced undergraduate students (e.g. those in the Neurobiology Option of the Biology Major or in the exercise science or movement science option of the Kinesiology major) with consent of instructor.

**THER SCI 775** *Special Topics 1\*, Sensory Integration: Theory & Practice*

Instructor: Dr. Julia Wilbarger ([jlwilbarger@education.wisc.edu](mailto:jlwilbarger@education.wisc.edu))

4:30 - 6:40 p.m. Tues ..... 2 credits  
Designed for graduate students and professionals in health-related and behavioral sciences. Topics include examination of theoretical and neurobiological foundations of sensory integration (SI) and will explore contemporary issues related to SI theory, measurement and therapeutic intervention. Contributions from bodies of research across scientific disciplines will be incorporated into a current view of SI theory and practice. Students will have an opportunity to critically analyze and discuss issues and controversies associated with the current body of research in SI and will identify and review relevant literature in an area of interest.

**THER SCI 775** *Special Topics 2\*, Time Use and Temporality in Disabled and Well Populations*

Instructor: Dr. Elizabeth Larson ([blarson@education.wisc.edu](mailto:blarson@education.wisc.edu))

2:30 - 4:10 p.m. Thurs ..... 2 credits  
This advanced graduate seminar will examine how individuals with and without disabilities use their time, and how time is experienced during participation in activities. Since participation is the "bar" for health, this class will 1) critically examine how variations in time-use and temporality contribute to differences in health or wellness, and 2) explore and critique methods for examining time-use.

\* Please note that 775-1 & 775-2 are two separate courses