**Kinesiology**

**Course Syllabus**

1. Course number: KINE8900

Course Title: Directed Studies (neurovascular lab techniques)

Prerequisite: Instructor Approval

Corequisite: none

Credit Hours: 3

Instructor: Heidi A. Kluess

1. Text: None, various research papers will be used
2. Course description: Learning the use of Neurovascular lab equipment by helping set up the lab, discussion, investigation and application of techniques used in neurovascular studies including luminometry, fluorometery, spectrometry, and vascular function techniques. There will also be detailed reading and review of scientific articles related to vascular function and neurotransmitter release and metabolism.
3. Course Objectives: Upon completion of this course, the student will understand:
   1. Essentials of techniques for metabolism of neurotransmitters
   2. Essentials of techniques for enzyme immunoassays
   3. The basic techniques for mounting isolated blood vessels
   4. The role of the sympathetic nervous system in controlling vascular resistance
4. Course Content and Schedule: The course involves in-depth study of the chosen topic. The student will meet with Dr. Kluess on a weekly basis to 1) observe and practice techniques, 2) select scientific papers to read, 3) review and discuss articles that have been read, 4) turn in summaries of articles read.
5. Course requirements/evaluation:

The course requirements include observing and practicing techniques, reading scientific articles and summarizing/synthesizing them in the form of short essays/abstracts.

Satisfactory +≥70%

Unsatisfactory =≤70%

1. Class schedule

Weekly one-on-one discussion/presentation/observation/practice sessions

1. Class policy Statements
   1. Participation – It si expected that the student will attend every scheduled meeting, will actively bring discussions to the meetings, and will meet all assigned paper and presentation deadlines. Please refer to the current edition of the Tiger Cub (http://www.aubunr.edu/tigercub) for the definition of excused absences. The student is responsible for initiating arrangements for missed work.
   2. Unannounced quizzes – there will be no unannounced quizzes in this class
   3. Accommodations – if the student needs accommodations, she is asked to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If she has a conflict with the office hours, an alternate time will be arranged. You must bring a copy of your Accommodation

Memo and an Instructor Verification Form to the meeting. If you do not have these forms but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Halley Center, 844.2096 (V/TT) or email: scw0005@auburn.edu

* 1. Honesty Code - The Auburn University student academic honesty code (Title XII) found in the *Tiger Cub* applies to this class. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.
  2. Professionalism - As faculty, staff, and students interact in professional settings, they are expected to demonstrate professional behaviors as defined in the College’s conceptual framework. These professional commitments or dispositions are listed below: o Engage in responsible and ethical professional practices

o Contribute to collaborative learning communities

o Demonstrate a commitment to diversity

o Model and nurture intellectual vitality