

Independent Study (KINE 7910) Course Syllabus

Instructor: John C Quindry, PhD

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Office Hours: MWF 8:00 - 10:00

Credit: 3 Semester hours

Syllabus Prepared: 8-14-2015

Class Schedule: Arranged with instructor

Lab Schedule: Variable

Course Description:

Student will perform basic laboratory functions designed to understand outcomes related to cardioprotection. Experiments will include histological, biochemical, and molecular biology techniques on already harvested tissues from animal experiments. Additional observations of cardioprotection (eg., ischemia reperfusion surgeries to induce heart attack) will be performed as the ongoing lab research schedule permits.

Objectives:

Graduates KINE students should be able:

- 1) To become proficient in performing western blot, histological assays, and biochemical assays on harvested tissues.
- 2) To perform all analyses of the above experiments in order to quantify outcomes for these key dependent variables (the given biological targets).
- 3) To keep lab (for experiments related to ongoing lab research) and personal notebooks (to document your personal experience) documenting the procedures and outcomes of the experiments performed.
- 4) To complete a semester ending write-up summarizing the tasks undertaken and completed during the Independent Study.

Required Text:

- 1) Assigned manuscripts as needed

Student Evaluation:

- A. Participation: Student is expected to report to the lab at the time and date arranged with the instructor.
- B. Task completion: Student is expected to complete laboratory assignments within the time frame outlined by the instructor, and as applicable, senior graduate research assistants.
- C. Summary write-up: Student is expected to compile and submit a formal written document outlining her laboratory research experience, the tasks

performed, and how these duties furthered ongoing research which is part of a larger laboratory research agenda. This write-up will include both notebook pages which represent data collected and the final lab protocol developed.

Grading Scale:

- A: 90% - 100%
- B: 89.99% - 80.0%
- C: 79.99% - 70.0%
- D: 69.99% - 60.0%
- F: < 60.00%

Attendance Policy:

Late Policy: Assigned lab work must be completed by the assigned date. Exceptions and extensions on task completion will be considered, by request, on a case-by-case basis. Exceptions and extensions should be brought to the instructor's attention prior to the assigned due date.

Academic Integrity Policy: 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.

Disability Accommodations: Students who need special accommodations in class, as provided for by the American Disabilities Act, should arrange a confidential meeting with the instructor during office hours the first week of classes - or as soon as possible if accommodations are needed immediately. 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