**Independent Study**

**(KINE 7910) Course Syllabus**

**Instructor:** John C Quindry, PhD

**Office**: Memorial Coliseum, Cardioprotection Lab 2128/2130/2131

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**Office Hours**: M-F 10:00 - 11:30

**Credit:** 2 Semester hours

**Syllabus Prepared:** 1-6-2012

**Class Schedule:** Arranged with instructor

**Lab Schedule:** Variable

**Course Description:**

Student will perform basic laboratory functions designed to understand the extent to which lipids within red blood cell membranes receive free radical damage during acute exercise. Work will include design and execution of necessary experiments to develop a working laboratory assay. Completion of experiments and a lab assay protocol will represent the lab output for this project.

**Objectives:**

Graduates KINE students should be able:

1. To become proficient in performing the ferrous oxidative assay as applied to red blood cells.
2. To draw and isolate red blood cells from before and after exercise.
3. To perform all needed experiments to demonstrate sample viability, labiality, and storage ability as a means to create an assay which can be ultimately used for high throughput research applications.
4. To author a laboratory protocol describing the procedures developed.

**Required Text**:

1. Assigned as needed

**Student Evaluation:**

* 1. 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](mailto:scw0005@auburn.edu)