**KINE 8970: EXERCISE SCIENCE RESEARCH**

**Spring 2015**

1. **Course Number:** KINE 8970

**Course Title**: Mentorship in Kinesiology

**Credit Hours**: 3 hours

**Prerequisite:** Permission of Instructor

**Meeting Times:** 9:00 – 9:50 a.m. – MWF

**Meeting Place:** Room 2116 Coliseum

2. **Instructor:** Dr. L. Bruce Gladden; 844-1466; [gladdlb@auburn.edu](mailto:gladdlb@auburn.edu)

Office Hours, 280 Kinesiology Building:

T – 8:00 – 9:00 a.m. and by appointment

3. **Optional Text:** *Conducting & Reading Research in Health & Human*

*Performance, Fourth Edition*, by Ted A. Baumgartner and Larry

D. Hensley, McGraw-Hill, New York, 2006.

ISBN-13: 978-0-07-297290-0.

ISBN-10: 0-07-297290-4.

4. **Course Description:**

Under the direction of the Course Instructor, students will supervise the capstone senior paper for groups of undergraduates enrolled in KINE 4780 Exercise Science Research.

5. **Course Objectives:**

a. To advise two or more student teams in the writing of a research proposal

(four sections: Introduction, Review of Literature, Methods, References);

b. To advise two or more student teams in the presentation of the research

proposal using Microsoft PowerPoint poster format.

c. In the process of performing a and b above, refine your own research skills

through the mentoring process.

6. **Grading and Evaluation Procedure:**

The final grade for this course is **A, B, C, D, F** (on a standard 10 point scale with 90% and above being an A, etc.). The final grade is determined by student output, punctuality, availability to students, and overall observed mentorship through the course of the semester.

7. **Class Policies:**

1. **Appropriate Effort –** Assistance of student teams must be done in a timely and consistent manner.

b. **Unannounced quizzes –** There are no unannounced quizzes in this course.

c. **Plagiarism –** Proper credit and notation/citation must be given for all source materials. All assignments must reflect the individual efforts of each student. The Auburn University student academic honesty code (Title XII) found in the Student Policy eHandbook ([www.auburn.edu/studentpolicies](http://www.auburn.edu/studentpolicies)) 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.

d. **Email –** You are responsible for checking your e-mail regularly and in a timely manner for any communications related to this class. The University has requested that all students use their Auburn University email accounts. This is the most efficient way for instructors to communicate with an entire class, and the University will occasionally send global notices that are important for all students. For this class, it is a requirement that you check your Auburn University email frequently.

e. **Cell Phones –** As a courtesy to others, turn your cell phone completely off during class or individual meetings with me. If you are expecting an emergency call, please let me know at the beginning of class or appointment. Similarly, texting, surfing, or other electronic use (e.g., computer, iPad, etc.), unless directly related to the class or appointment, is strictly prohibited. If these policies are violated, you will be asked to leave class or the appointment.

f. **Extra Credit –** There are **no** extra credit opportunities for this class.

g. **Disability Accommodations –** Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).

h. **Attendance –** This class will not meet on a regular basis. However, at the beginning of the semester, regular meetings may be needed as the undergraduate students form research groups and identify a research proposal topic. Thereafter, most of your work will be conducted by advising your groups and individual group members.

i. **Professionalism –** As faculty, staff, and students interact in educational settings, they are expected to demonstrate professional behaviors as defined in the College of Education’s conceptual framework. These professional commitments or dispositions are as follows: 1) engage in responsible and ethical practices, 2) contribute to collaborative learning communities, 3) demonstrate a commitment to diversity, and 4) model and nurture intellectual vitality.

**The Research Proposal (for which you will assist the undergraduate Student Groups/Teams):**

Three sections plus references:

1) Introduction, 2-4 pages.

2) Review of Literature, 10-15 pages.

3) Methods, 2-5 pages.

4) At least 20 primary references; pages for the reference list are NOT included in the above page guidelines. In other words, the references are in addition to the above and are not counted in the page allocations. In general, references to websites will NOT be permitted. Student groups must choose the reference style of a particular journal and use that format for citing references in the body of the paper as well as for typing the reference list. **They will be required to provide a 1) copy of the journal instructions, 2) copy of one original article from that journal that illustrates the journal’s referencing format.** As the student groups write their papers, they must cite/describe at least some actual experiments from the primary papers.

All Research Proposals are to be printed (include a title page) and also e-mailed to me as a Microsoft Word document; pages must be numbered in the upper right-side margin as part of a header. The font must be **Times New Roman 12-point**. Printed pages for the main text must be double-spaced with a one-inch margin on all sides. The reference list may be single-spaced within each reference, and double-spaced between references. The outline of the paper and all draft copies for each section must be submitted to me via attachment of a Microsoft Word document to an email.

**The PowerPoint Poster Presentation**

At the end of the semester, the student groups will present their research proposal as a poster presentation. The posters will be mounted in a conspicuous place (to be determined and announced later), and faculty and students from outside the class will be encouraged to view them. Instructions on poster presentation format and construction will be provided later.

**To Choose and Explore Your Topic – you must assist the students with this.**

Read sections of interest and relevance in textbooks, especially from your Exercise Science classes.

Search the literature. If you’re lucky, you may find a review article.

Possible Reference Sources:

PubMed ([www.ncbi.nlm.nih.gov/pubmed](http://www.ncbi.nlm.nih.gov/pubmed))

Google Scholar ([www.scholar.google.com](http://www.scholar.google.com))

Web of Science (access through AU Libraries on the internet)

MEDLINE (access through AU Libraries on the internet)

PsycINFO (access through AU Libraries on the internet)

SPORTDiscus (access through AU Libraries on the internet)

You might also glance at Chapter 3, pages 46-66 of your KINE 4760 textbook.

Look in familiar scientific journals.

**Class Schedule and Assignment Deadlines for the Undergraduate Groups/Teams (Microsoft Word; sent electronically)**

**Week #1** – 1/14, 1/16

Introduction and orientation to class; the scientific method, scientific format, literature searches, and group dynamics/grading. Do not use the word, “prove.” Do not use “you” and “your.” Outside assignment is to be reading and searching the literature to decide on a topic for the research proposal.

**Week #2** – 1/21, 1/23

1/19 – **Martin Luther King Holiday**

Animals and humans in research: rules, regulations, standards, ethics. Reference manager programs. Search and gather research literature in quest of research topic.

**Deadline 1/21: Research group assignments.**

**Deadline 1/21: Contract of Deliverables signed and submitted.**

**Week #3** – 1/26, 1/28, 1/30

Continue reading and searching the literature, focusing on a topic for the research proposal.

**Deadline 1/30: Submit three journal references for papers that you have read during your search for a topic.**

**Week #4** – 2/2, 2/4, 2/6

Read and review primary references. Develop review notes from references.

**Deadline 2/6: Submit the tentative title for your paper.**

**Week #5** – 2/9, 2/11, 2/13

Review research literature, develop research question (purpose), and formulate outline for paper.

**Deadlines 2/13: Submit supporting material for your journal format (a copy of the journal instructions, and a copy of one original article from that journal that illustrates the journal’s referencing format**)**. Submit 20 primary references. All references should be typed in your chosen journal format.**

**Week #6** – 2/16, 2/18, 2/20

Work seriously on Outline.

**Week #7** – 2/23, 2/25, 2/27

Work on developing research questions/hypotheses, refining outline, and begin writing Review of Literature.

**Deadline 2/27: Submit research question(s), hypothesis/hypotheses.**

**Week #8** – 3/2, 3/4, 3/6

Work on outline, paper, and poster.

**Deadline 3/4: Submit Outline for paper.**

**Week #9** – 3/9, 3/11, 3/13

Work on paper and poster.

**Week #10 –** 3/16, 3/18, 3/20

Work on paper and poster.

**Feedback on Outline.**

**SPRING BREAK – 3/23 – 3/27**

**Week #11** – 3/30, 4/1, 4/3

**Deadline 4/3: First draft of Review of Literature.**

**Week #12** – 4/6, 4/8, 4/10

**Feedback on Review of Literature**

**Deadline 4/10: First draft of Introduction and Methods.**

**Week #13 –** 4/13, 4/15, 4/17

Work on paper and poster.

**Feedback on Introduction and Methods.**

**Week #14 –** 4/20, 4/22, 4/24

Work on paper and poster.

**Week #15 –** 4/27, 4/29, 5/1

Work on paper and poster.

**Deadline 4/27 – last opportunity to ensure full feedback on all drafts.**

**Week #16 –** 5/4, 5/6 (Exam Period)

**Deadlines:**

**Poster Presentation (hard copy and electronic version are due and attendance is required) will be scheduled this week.**

**Deadline 5/6 - Final Senior Paper (both electronic and hard copy).**