**KINE 4780: EXERCISE SCIENCE RESEARCH**

**Summer 2017**

1. **Course Number:** KINE 4780

 **Course Title**: Exercise Science Research

 **Credit Hours**: 3 hours lecture

 **Prerequisite:** KINE 4760

 **Meeting Times:** 5:30-6:45 MWF

 **Meeting Place:** Lecture – SACT 247

2. **Instructor:** Dr David D. Pascoe, 334 844-1619; pascodd@auburn.edu

 260 Kinesiology, Thermal Lab:

 Office Hours posted.

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:**

 Development of a research proposal including the introduction, review of literature, methods, experimental design, statistics, and references.

5. **Course Objectives:**

 a. To write a research proposal (Three sections: Introduction, Review of Literature, Methods);

 b. To present the research proposal using Microsoft PowerPoint poster format.

6. **Grading and Evaluation Procedure:**

The final grade for this course is **Satisfactory** or **Unsatisfactory**. The final grade is determined by 1) the research proposal and group partnership (60%), 2) the poster presentation of the research proposal (20%) and 3) Contract f Deliverables, evaluations (6%), and 4) class attendance (14% = 0.5 points per class). Please refer to the current edition of the Tiger Cub (http://www.auburn.edu/tigercub) for the definition of excused absences. A satisfactory grade is defined as 70% or greater. **Failure to meet any assignment deadline will result in the loss of ten (10) percentage points from the final grade. This means that missing three (3) deadlines will result in an unsatisfactory grade for this course.**

7. **Class Policies:**

a. **Appropriate Effort;** Assignments are due on the day assigned, and evidence of activity should be obvious on a regular basis between deadlines. All assignments must reflect the group’s and individual’s efforts in fulfilling the class requirements.

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

c. **Attendance –** “Taking a class” means attending all meetings of that class. 0.5 points will be deducted for every unexcused class absence.

d. **Plagiarism –** Proper credit and notation must be given for source materials.

e. **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.

f. **Cell Phones –** As a courtesy to others, turn off your cell phone 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.

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

h. **Disability Accommodations –** Students who need accommodations are asked to arrange a meeting with me during the first week of classes, or as soon as possible if accommodations are needed immediately. To set up this meeting, please contact me by Email or phone. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/TT).

**The Research Proposal**

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. You must choose the reference style of a particular journal and use that format for your referencing. **You will be required to provide evidence of the journal instructions.** As you write your paper, cite/describe at least some actual experiments from the primary papers.

All Research Proposals are to be printed hard copy (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. The font must be Times New Roman 12-point. Printed pages must be double-spaced with a one-inch margin on all sides.

**The PowerPoint Poster Presentation**

At the end of the class, you will present your 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**

Read sections of interest and relevance in textbooks.

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

Possible reference sources:

Entrez PubMed (http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?DB=pubmed)

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

 SportDiscus

 Google Scholar

 You might also glance at Chapter 3, pages 46-66 of your textbook. Look in familiar scientific journals.

**Class Schedule and Assignments (typed-electronic)**

* **Most Deadlines: Fridays**

**Week #1***5/19*

Introduction and orientation to class; the scientific method, scientific format, literature searches, and group dynamics/grading. Outside assignment is to be reading and searching the literature to decide on a topic for the research proposal. Animals and humans in research**-** Rules, regulations, standards, ethics.

**Deadline 5/24: Research group assignments**, **Project Focus**

**Week #2** – *5/22 (no class), 5/24, 5/26*

Animals and humans in research**-** Rules, regulations, standards, ethics.

Search and gather research literature in quest of research topic.

Reference manager programs.

**Deadline 5/26: Contract of Deliverables submitted and signed; Submit three research journal references that you have read in searching for a topic.**

**Week #3**  **May 29th Memorial Day;** May 31- June 2 (ACSM)

Continue reading and searching the literature, focus on a topic for research proposal; Develop research design

**Deadline 6/2Submit Topic decision**.

**Week #4** – *6/5, 6/7, 6/9 (Alabama Games)*

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

**Deadline 6/9:**  **Submit 20 primary references**. **All references should be in your chosen journal format.**

**Week #5** – *6/12, 6/14, 6/17*

**Deadline 6/17: Submit research question(s), hypothesis/hypotheses; Submit Outline for paper**

**Week #6** – *6/19, 6/21, 6/23*

**Deadline 6/23: Draft Copy of Review of Literature**

**Week #7** – 6/26, 6/28, 6/30

 **Deadline 6/30: Draft Copy of Introduction**

**Week #8** – 7/3, 7/5, 7/7

**Deadline 7/7 Draft Copy of Methods**

**Week #9** – 7/10, 7/12, 7/14

**Deadline 7/14: Powerpoint poster presentation presented to class.**

**Poster presentation colleague evaluations due**

**Week #10** – 7/17, 7/19, 7/21

**Deadline 7/21: Final Senior paper due and submitted.**

**Senior paper colleague evaluations due.**

**Week #11** – 7/24, 7/26, 7/28

**Deadline Poster Presentations TBD**

**Posters submitted.**