**Seminar: Scientific Communication in Exercise Science**

**KINE 8710 section 1**

**Spring 2017**

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**Instructor:** Dr. Heidi Kluess

**Office:** 283 New Kinesiology Building

**Phone:** 844-1844, no voicemail

**E-mail:** hak0006@auburn.edu

**Office Hours:** MWF 10AM-11AM or by appointment

**Credit:** 3 credit hours

**Syllabus prepared:** 12/12/16

**Class Schedule:** MWF 8-8:50AM, Student act 249

**Course Description:** This course will focus on the process of research from developing an idea to writing a grant or manuscript. We will also cover research issues such as ethics, budgets and polices for human and animal subjects.

**Objectives:** Graduate students are expected to demonstrate competency in the following areas:

1. Knowledge of research ethics and intellectual property
2. Knowledge of process of developing a research project including writing an effective purpose and hypothesis.
3. Knowledge and experience with effective scientific communication through grantsmanship and manuscript writing.
4. Understanding and experience with evaluation of scientific communications

**Required Text:**

Pyrczak. Evaluating Research in Academic Journals, 4th edition

Pyrczak. Writing Empirical Research Reports, 7th ed.

Harris. Using Sources effectively, 3rd edition

Other readings as assigned

**Student Evaluation:**

Writing Project: 100% of class grade (see last page for details).

**Grading Scale:**

A: 90 – 100 points D: 69.99 - 60.0 points

B: 89.99 - 80.0 points F: < 60.00 points

C: 79.99 - 70.0 points

**Attendance Policy:**

***Class attendance*** Attendance is mandatory as a pre-requisite for participation. I will not take attendance, but many of the assignments are due in class and required to participate in the discussions. Students that are absent for any excused or unexcused reasons are expected to obtain all information necessary for successful completion of this course. I would recommend that you contact one of the students that did attend. Please do not contact me to ask if we covered something important in class that day. A detailed schedule for the class is attached to this syllabus.

**Academic Integrity Policy:** The Auburn University student academic honesty code Title XII found on the University Policies webpage (<https://sites.auburn.edu/admin/universitypolicies/default.aspx>; [https://sites.auburn.edu/admin/universitypolicies/Policies/AcademicHonestyCode.pdf](https://sites.auburn.edu/admin/universitypolicies/default.aspx)) 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.

There is a great deal of writing in this class and I expect strict adherence to proper citation, paraphrasing and summarizing. I will use Plagscan software this semester to encourage everyone to be thoughtful about intellectual property. All work must be your own. There is no group work in this class. I strongly encourage you to go to the Writing Center (<http://wp.auburn.edu/writing/writing-center/>) at least once this semester. They are very helpful in improving your arguments and grammar.

**Disability Accommodations:** Students who need accommodations are asked 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 PSD office, but need accommodations, make an appointment with The Program for Students with Disabilities, 1228 Haley Center, 844-2096 (V/TT).

**University cancellation policy**: Should the University cancel classes due to weather or other type of emergency, please see Canvas and your auburn e-mail for assignments.

**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: 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

**Grant/Manuscript project:**

**Part 1: Writing a scientific paper**

a. Come up with a topic (10 pts)

A. Have two specific aims

B. Have record of the search engines that you used and the key words employed

C. Make an appointment with me to discuss A and B AND bring 3 primary sources that you

have found in the area that relate to your aims, methodology, or both.

b. Write a purpose, overall goal and overall hypothesis; write an outline for research design and

methods (10 pts)

c. Write an outline for a literature review (10 pts)

d. Write a brief literature review (10 pts)

e. Write the human/vertebrate animal subject part of your grant also include a detailed power analysis. (10 pts)

f.Write the Specific aims, project narrative and project summary and the title. (10 pts)

g. Develop a budget and a budget justification for your project. (10 pts)

**Part 2: Evaluating a scientific paper** (10 pts)

a. write a primary and secondary review of the scientific papers assigned to you

b. participate in a study section discussion and write a summary of the discussion to the author of your primary paper.

**Part 3: Revising a scientific paper** (10 pts)

Write a response to your reviews and revise your paper. Include a redline version of your paper and a clean version of your paper

**Part 4: Final evaluating a scientific paper** (10 pts)

a. write a primary and secondary review of the scientific papers assigned to you

b. participate in a study section discussion and write a summary of the discussion to the author of your primary paper.