

# Course Syllabus

## KINE 7010 - RESEARCH METHODS IN PHYSICAL ACTIVITY (3 cr.)

### ***Instructor***

Dr. Peter Hastie, 176 Kinesiology Building

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Office hours: Daily, 2-3 PM . Other times by appointment.

### ***Lecture/Lab***

Online lecture completed by Tuesdays (submission is via online quiz)

- lecture quizzes are due by 6.00pm on the Tuesday of the week the lecture is listed (see schedule)

Labs are completed on Thursdays

- lab tasks are due by 6.00 on the Wednesday of the week the lab is scheduled (see schedule)
- lab note books should be brought to class and should be available for instructor review at any time

### ***Course Description***

Review, analysis, and interpretation of available research with emphasis on designing new research to meet changing needs. The study of research methods and critical analysis of research literature specifically applied to the areas of motor performance, physical education, exercise science, health promotion, and sport.

### ***Course Organization***

In this course, you will be completing the lectures in your own time. For each lecture, you are required to complete 3 (THREE) tasks

1. Download the powerpoint file, hit F5, and listen to the presentation.

- the schedule for lectures is listed below
- each lecture has a consistent filename. eg. 7010\_su13\_1.pptx is the first, while 7010\_su13\_6.pptx would be lecture 6

2. After listening to the powerpoint, complete the associated QUIZ for that lecture.

- each quiz has 4 questions
- you can take a quiz 3 times
- you need to score 100% to get credit for the quiz

- that is, a score of 3/4 or lower will score a 0 towards your grade

3. After completing the quiz, retrieve the associated assignment and complete it

- each assignment has a common file name (e.g. 7010 Lab 1 is the first, A2 is the second etc.)
- you can submit your answers online in the assignment box
- these need to be submitted before the due date and time indicated
- print your answer and store it in your lab notebook

### **Objectives**

Upon completion of this course, students will understand:

1. How to apply scientific thinking through the analytical study of research literature;
2. How to locate and use the professional and physical resources available for research at Auburn University;
3. Specific philosophical issues related to the nature of graduate study in the physical activity subdisciplines;
4. How to develop a specific research problem in their area of specialization.

### **Assessment**

Lecture quizzes (10)

Midterm Evaluation (30)

- Here you have a choice of completing the exam for the full 30 points, or the exam for 15 points and an associated paper review for 15 points.
- The paper is open on September 30 and closes on October 1.


Research design critique (10)

Final Exam or Research paper (30)

- Here you have a choice of completing the exam for the full 30 points, or the exam for 15 points and a research paper for 15 points.
- **Research paper topics**
  - **leg strength and punting**
  - **balance and 3 anthropometric measures**
  - **blind golf putting the feedback**

Labs (20)

### **Schedule**

<b>Tues</b>	<b>Topic</b>	<b>Thurs</b>	<b>Topic</b>
8/19	First class meeting	8/21	<a href="#">Introduction to research paper tasks</a> 
8/26	L1: What is research	8/28	Lab 1 – Memory quiz
9/2	L2: Developing the research question	9/4	Lab 2 – Accuracy challenge
9/9	L3: Reviewing the literature	9/11	Lab 3 – Library searching <a href="http://libguides.auburn.edu/kinesiology?hs=a">http://libguides.auburn.edu/kinesiology?hs=a</a>
9/16	L4: Ethics and the IRB	9/18	Lab 4 – Unethical scenarios
9/23	L5: Research designs	9/25	Lab 5 – Planning phase for research paper
9/30	L6: Experimental designs	10/2	Lab 6 – Planning phase for research paper
10/7	L7: Data collection	10/9	Lab 7 – Data collection issues
10/14	L8: Reliability & validity	10/19	Lab 8 – Observational reliability
10/21	L9: Measuring relationships	10/23	Lab 9 -- Correlational tests
10/28	L10: Measuring differences	10/30	Lab 10 – Football throwing differences
11/4	L11: The research paper	11/6	Lab 11 – In class challenge
11/11	L12: Writing abstracts	11/13	Lab 12 – IMRAD and abstracts
11/18	L13: Referencing systems	11/20	Lab 13 – Referencing systems

### **Grading**

A = 90+

B=80-89

C=70-79

D=60-69

F<60

### **Class Policies**

*Attendance:* It is expected that students taking a graduate class will attend every class meeting, will arrive on time, and will actively participate in each class. Absences and late arrivals will not be tolerated. If you must miss class because of illness or other emergency, please try to notify the instructor in advance. You are still responsible for any work missed during an absence.

*Plagiarism:* All exams, research abstracts library assignment, faculty biographies, and any other written work must reflect the individual efforts of each student. Please refer to the Tiger Cub for information regarding academic honesty.

*Cell Phones:* As a courtesy to everyone, please turn off your cell phone during class. If you have a compelling reason for leaving your phone on, please let me know at the beginning of class. Also, please do not text-message during class.

*Best Work:* Students are expected to show evidence of thorough reading of assigned textbook chapters and supplemental readings. Please take pride in your work and be motivated to do your best work in this class; if you are, you will gain the maximum benefit from the course.

*Unannounced Quizzes:* There will be no unannounced quizzes in this class.

*Honesty Code:* The University Academic Honesty Code and the Tiger Cub Rules and Regulations pertaining to Cheating will apply to this class.

*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.

*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. 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).

It is the student's responsibility to inform the instructor of any medical conditions or allergies that may affect in class participation or performance. Students with any health problems should have completed a Health Referral Form.

*Attendance:* The material and experiences in this class are important and if you are not in class, you cannot take an active role as a student. Class attendance and appropriate participation is paramount to your success as a student.

If an unusual condition such as a serious illness results in this situation (8 total absences) students are encouraged to consult the AU Bulletin and/or an academic adviser in their college to determine if they meet university guidelines for requesting withdrawal from the course.