TECHNIQUES OF RESEARCH  
Kinesiology 500  
Tuesday’s 5:30-8:15pm  
Southern Illinois University Carbondale  
Fall 2015

INSTRUCTOR:  Juliane P. Wallace, Ph.D.  
119 Davies Hall  
Office Phone: 453-3124 (answering machine available)  
Office Hours: T, TH 9-11AM, W 1-3PM, or by appointment  
E-Mail: juliane@siu.edu

PURPOSE OF COURSE: This course is designed to introduce students to the research process as it relates to the field of kinesiology or physical activity. Students will be exposed to the theory and methods of research utilized by the various sub disciplines within the exercise science and sport studies specializations. In addition, students will be introduced to various facets of the graduate program in the department, including program requirements/expectations, graduate faculty in the department, research interests of graduate faculty, and procedures and protocol for student research. The class will focus on the following topics as they pertain to their field of kinesiology: (1) graduate education and the role of research, (2) philosophy of science issues in the research process, (3) overview of the research process, (4) proposal and thesis development, (5) various research methodologies, (6) critiquing research, (7) expose students to research journals, topics, issues, and dissemination outlets within the various specializations in the field of physical education.

OBJECTIVES: Desired student outcomes as they relate to research in the field of kinesiology:

1. Ability to discuss the manner in which science has been socially constructed
2. Articulate and critique assumptions of natural science model
3. Identification of a variety of knowledge generation systems
4. Ability to logically develop a research project
5. Ability to utilize available research resources at SIUC
6. Ability to develop a research question
7. Identification of appropriate methods for answering research questions
8. Ability to utilize library resources in conducting literature review
9. Appreciation for ethical issues in the research process
10. Application of the Human Subjects process to research
11. Ability to incorporate APA publication guidelines into research process-writing
12. Ability to critique research articles
13. Application of various types of research (historical, philosophical, descriptive, experimental, qualitative) to research interests
14. Identification of key components of a research proposal
15. Identification of various dissemination outlets for research
16. Ability to articulate the key components of a thesis chapter
17. Application of the concepts of validity and reliability to research
18. Ability to develop research abstracts
19. Ability to utilize various perspectives when researching an issue
20. Ability to identify stages in the publication process

CLASS FORMAT: The class will be taught utilizing a combination of lecture, discussion, and learning exercises. Application will be made to the various specializations and interest areas in the field of kinesiology.

EVALUATION PROCEDURE: The course grade will be determined by the following components:

<table>
<thead>
<tr>
<th>Component</th>
<th>% of Grade</th>
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<tbody>
<tr>
<td>Exam 1</td>
<td>20%</td>
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<tr>
<td>Exam 2</td>
<td>20%</td>
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<tr>
<td>Learning Exercises</td>
<td>40%</td>
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<tr>
<td>Notebook</td>
<td>8%</td>
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<tr>
<td>Quizzes</td>
<td>6%</td>
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<tr>
<td>Class Participation</td>
<td>6% (−8pts per miss)</td>
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<td>TOTAL</td>
<td>100%</td>
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The first examination will be given around the midpoint of the semester. The second examination will be administered on Thursday August 1, 2013 and will cover the material presented after the first exam. Exams may consist of multiple choice items and/or short answer items and cover material presented in lectures, assigned readings, class discussions, and learning exercises. Details on the learning exercises and other assignments will be handed out separately. Students are encouraged to read the assigned chapters or articles before class since short quizzes will be administered periodically at the beginning of the class period. Participation in class discussions is expected. Attendance will be taken before each class meeting and will be the major component of your class participation grade. Students missing more than three classes will be asked to drop the course. Students also will be required to organize a notebook with all relevant materials generated from the course.

READINGS FOR COURSE:

Most of the readings for the course are located in your two required textbooks and on SIUOnline. If you encounter any difficulties in locating assigned readings, please ask for assistance or notify me immediately.

CLASS PARTICIPATION:

Class participation is largely based on attending class. Students will lose 8 points for each unexcused absence from class and 2 points for tardiness or leaving early (within 15 minutes). Excused absences include (1) doctor’s excuse for illness, and (2) university sponsored activity which requires you to miss class. Written documentation needs to be provided to the instructor for both types of excused absences. Medical excuses are to be given to the instructor immediately upon the student’s return to class, while notes for university sponsored activities should be approved before missing class. Please feel free to discuss with me any other circumstances which might cause you to miss class. NOTE: Students missing more than three classes will be asked to drop the class.
LEARNING EXERCISES:

Given the structure and philosophy of this course, it is essential that students complete all assignments for the class. If students do not turn in the requested assignments, it will be difficult to experience the goals of this course.

OTHER INFORMATION:

1. If you must miss class, please inform me of your absence as soon as you know you will not be in class (e.g., telephone call, message on answering machine or email).
2. All assignments are due at the beginning of the assigned class period. Late assignments will not be accepted unless prior arrangements have been made.
3. Please see me if you are experiencing difficulty with the course.
4. All students enrolled in this course MUST be accepted into the master’s program in the Department of Kinesiology and have an official advisor within the department.
5. Please turn off your cell phones during class!!!
# TENTATIVE SCHEDULE – KIN 500

Dr. Wallace  
Fall 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
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| August 25  | Introduction to Course  
Graduate Program at SIU/Department of Kinesiology  
Graduate School Procedures/Expectations  
Department of Kinesiology Procedures/Expectations  
Preface to Text (ix-xi)  
About the Authors (p. 449)  
Introduction to Graduate Faculty in Kinesiology |
| September 1| Philosophy of Science  
Introduction to Research in Kinesiology (Text Ch. 1)  
“You Might Be a Graduate Student If…” |
| September 8| Morris Library – Amber Loos  
Electronic Information  
Computing Services  
Developing the Research Problem and Using the Literature  
In Kinesiology (Text Ch. 2)  
Thesis Chapter 2  
SIUC Graduate School Thesis Guidelines |
| September 15| Online, we will not meet for class  
Attend the SIU volleyball match and develop three research questions.  
Presenting the Problem (Text Ch. 3)  
Thesis Chapter 1 |
| September 22| Formulating the Method (Text Ch. 4)  
Human Subjects  
Pilot Tests  
Thesis Chapter 3 |
| September 29| Ethical Issues in Research (Text Ch. 5) |
| October 6  | **FIRST EXAM** |
| October 13 | **No Class, Fall Break** |
| October 20 | Historical Research in Physical Activity (Text Ch. 12)  
Philosophical Research in Physical Activity (Text Ch. 13)  
**Faculty contact sheet due** |
| October 27 | Research Synthesis & Descriptive Research in Physical Activity  
(Text Ch. 14, 15, 16) |
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<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>November 3</td>
<td>Epidemiology (Ch. 17)</td>
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<tr>
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<td>Experimental Research in Physical Activity (Text Ch. 18)</td>
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<td>November 10</td>
<td>Qualitative Research in Physical Activity (Text Ch. 19)</td>
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<td>Dr. Knapp</td>
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<td>Mixed Methods Research (Text Chapter 20)</td>
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<td></td>
<td>APA Style (APA Chapters 1-6)/Graduate Program (Comprehensive Exams)</td>
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<tr>
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<td><strong>Prospectus due!</strong></td>
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<td>November 17</td>
<td>Research Proposal (Text Ch. 21, pp. 355-362)</td>
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<td></td>
<td>Results and Discussion (Text Ch. 21, pp. 362-374)</td>
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<td></td>
<td>Thesis Chapters 4 &amp; 5</td>
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<td></td>
<td>Reporting Research in Physical Education (Text Ch. 22)</td>
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<td>Dissemination Options in Kinesiology</td>
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<td>Critiquing Research</td>
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<tr>
<td>November 24</td>
<td><strong>Thanksgiving Break!</strong></td>
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<td>December 1</td>
<td>Prospectus presentations</td>
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<tr>
<td>December 8</td>
<td>Prospectus presentations</td>
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<tr>
<td>December 15, 5-7pm</td>
<td><strong>SECOND EXAM</strong></td>
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**Emergency Procedures:**

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on the BERT's website at [www.bert.siu.edu](http://www.bert.siu.edu), Department of Public Safety's website [www.dps.siu.edu](http://www.dps.siu.edu) (disaster drop down) and in the Emergency Response Guidelines pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency
Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.