WEBER STATE UNIVERSITY

Department of Athletic Training and Nutrition

COURSE: Nutrition 4520/6520; Directed Undergraduate and Graduate Nutrition Research

CREDIT: 1-3 semester hours

PREREQUISITES/CO-REQUISITES: Nutr 4320 or HPHP Majors with Nutr LS 1020 and Permission of the Instructor. Graduate students taking this class as 6520 must have completed a statistical methods course.

PROFESSOR:
Rodney Hansen, Ph. D.
Room 408 SB
Office Phone: (801) 626-7748
Email: rhansen@weber.edu

REQUIRED TEXT:
There is no required text for this class. There will be required directed reading, reading of certain literature reviews addressing research, and review of written lab protocols.

COURSE DESCRIPTION:
This course will provide both undergraduate and graduate students an opportunity to engage in research processes and participate in ongoing nutrition research projects

Nutri 4520 Outcomes

Overall:
Research
Laboratory Experience
Methodology

Outcomes:
Upon completion of this course, the student will:
1) Formulate a testable idea and hypothesis for objective research
2) Obtain an NIH or CITI Certification
3) Be able to write an IRB or ACUC for application
4) Author and submit an internal research proposal at Weber State University
5) Demonstrate methods and protocols of research in clinical and laboratory settings
6) Disseminate results of a research project in a public forum
7) Demonstrate the inclusion of this research experience in a potential resume, CV, or application format

Revised Fall 2015
**REQUIREMENTS:**
Students in this class will fulfill several components for evaluation. Students who registered for two to four credit hours of Nutr 4520 or 6520 are required to complete more lab, research, and/or literature review for a more demanding project as compared to a one credit hour enrollment. Depending on the number of enrolled credit hours, the student will contract with the instructor and be evaluated for some or all of the following course components.

For 1-3 credit, all students will be required to:

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<th>Point value</th>
<th>Component</th>
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<tr>
<td>100 points</td>
<td>1) Keep a log of time and activity devoted to the assigned project</td>
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<td>Due on Week 2, 4, 6, 8, 10, 12, 14, and Finals week. Generally, each single credit will require sixty hours of work.</td>
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<tr>
<td>100 points</td>
<td>2) Keep a lab book of activity, procedures, and observations conducted in the assigned project. Demonstrate proper laboratory conduct including observing safety issues and maintaining an orderly and clean work space</td>
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<td>Due on Week 2, 4, 6, 8, 10, 12, 14, and Finals week.</td>
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<td>100 points</td>
<td>3) Complete a literature review addressing the current area of the assigned research. This will contain a minimum of eight peer reviewed journal articles for one credit hour of Nutr 4520. Additional literature review required for additional credits and graduate (Nutr 6520) enrollment.</td>
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<td>Due on Week 3.</td>
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<td>100 points</td>
<td>4) Complete a methods and procedure protocol for the assigned research area.</td>
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<td>Due on Week 5 or 13.</td>
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<td>100 points</td>
<td>5) Include all items above in an organized portfolio or develop a Curriculum Vitae showcasing research experience from Nutr 4520/6520</td>
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<td>Due on Week 15 (tentative).</td>
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Students registered for two to three credit hours are required to complete one or more additional items listed such as:

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<td>100 points</td>
<td>6) Complete an IRB or ACUC application for the assigned project. This document may or may not be submitted for committee approval.</td>
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<td>Due on Week 5</td>
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<td>100 points</td>
<td>7) Complete and submit a proposal. This can include an Undergraduate Research Proposal to the Office of Undergraduate Research at WSU by the appropriate deadline</td>
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<td>Due on Week 13 (tentative)</td>
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Revised Fall 2015
100 points 8) Complete a submission of research conducted to a public forum to showcase the finished project (poster, abstract, presentation, journal submission*) or present the completed project publicly as either a poster, symposium presentation, published abstract, or journal submission. 
Due on Week 15 (tentative)

100 points 9) Complete a CITI Certificate (Due first week)

100 points 10) If awarded a grant, keep an accounting record and copies (in triplicate) of all purchases and expenditures of award. This accounting will be left with the HPHP office, the instructor, and the grant awarding office.

Other components may be added to the contract or point values may be reevaluated at the discretion of the instructor. Any components submitted after contracted due dates will receive a 20% reduction in overall grade.

*Required for Nutr 6520 students

EVALUATION:

Final grades will be assigned on a straight percentage basis: 93% or more of the total points earned is an "A," 90-92% is an “A-,” 87-89% is a “B+,” 83-86% is a "B," 80-82% is a “B-,” 77-79% is a "C+," 73-76% is a "C," 70-72% is a "C-," 67-69% is a "D+," 63-66% is a "D," 60-62% is a "D-," below 60% is a "E". If a student unofficially withdraws from the class their grade is a "UW".

STUDENT CODE: Students enrolled in this class will adhere to the Department of Athletic Training and Nutrition (ATN) Student Conduct Policy available online at http://www.weber.edu/atn/ATN_Student_Code.html.

ACADEMIC HONESTY AND DISHONESTY:
Students should follow the "student code" regarding academic honesty. It is unacceptable to give student’s information about exam questions and their answers or correct answers on assignments. Any individual caught cheating on examinations and assignments; such as plagiarizing or copying another person's homework will receive an automatic "E" for their final grade. In addition, a letter will go into the student's file documenting the crime.

CAMPUS CLOSURE: In the event that the WSU campus is closed for face to face classes, the class will continue to meet at WSU Online http://online.weber.edu.

STUDENTS WITH DISABILITIES:
Students with Disabilities: "Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary." For more information contact SSD at 801-626-6413, ssd@weber.edu, or http://departments.weber.edu/sss/.