HUN 4936
Topics in Human Nutrition: Medical Nutrition Research
Spring 2024

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Class meeting time: Wednesdays: 3:00 p.m. to 4:55 plus 1 hour/week online component or in-person research activities
Attendance: Required
Location: Zoom (Research activities will require in-person attendance)
Credits: 3

Course Description
This course introduces students to medical nutrition research – exploring how foods, nutrients, and dietary patterns may help manage and treat disease and enhance health and well-being. Students will become part of a nutrition research team, review relevant evidence, collect publishable research data, and gain knowledge and skills related to best practices in conducting clinical nutrition research.

Course Learning Objectives: Upon completion of this course, students should be able to
1. Explain the scientific process as it relates to medical nutrition research.
2. Describe the ethical principles of conducting human research.
3. Discuss Good Clinical Practice (GCP) for conducting clinical trials.
4. Identify characteristics of healthful dietary patterns and how they contribute to the management of disease and health conditions.
5. Evaluate relevant scientific literature.
6. Demonstrate basic skills in planning and conducting nutrition research
7. Analyze and synthesize data and discuss research findings.
8. Communicate research findings and the importance of medical nutrition research.

Learning Principles
1. Learning requires structure and guidance.
2. Learning is enhanced through facilitation.
3. Learning may require relearning.
4. Learning needs differ among individuals.
5. Learning requires discourse.
6. Learning is enhanced through critical thought and problem-solving.
7. Learning is enhanced by curiosity and engagement.
9. Learning influences future decisions.
10. Learning is lifelong

Required Materials:
- Access to a laptop or desktop computer.
- Additional Course information and materials are posted on Canvas.

How to Access Canvas:
- Access requires a Gatorlink account. If you need to establish a Gatorlink account, go to http://identity.it.ufl.edu/process/gatorlink/create-account/.
- Once you have created a Gatorlink account, access e-Learning support services home page at http://lss.at.ufl.edu. Select "e-Learning in Canvas". Log in using your Gatorlink ID. HUN 4936 should be listed under "courses". If you are unfamiliar with Canvas, information can be found under the "help" tab.

Class Attendance and Demeanor: Students are expected to attend all classes, arrive on time, and leave when dismissed by the instructor. Students are expected to show courtesy to their classmates and instructor by muting electronic devices and refraining from using a computer or any other type of personal electronic device for any purpose other than class activities during class time. Students also are expected to refrain from engaging in personal conversations or text exchanges during class time.

Email: Students are required to check their email account daily (at least Monday through Friday) and respond to course/program-related requests, inquiries, etc., in a timely manner.

Absences and Make-Up Work: Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx. (See below for more details.)

Student Evaluation: The following activities and assignments will be the basis for assessment and grading. Extra credit projects will not be available.

IRB Training. This must be completed to work with human research studies.

Good Clinical Practice Training. This training is an international quality standard for conducting clinical trials.

Belmont Report and Essay. Research participants have been mistreated in the past. This report was a major first step towards providing protections for research participants and transparency and honesty in research.

Scientific Reading and Assignments: Detailed information regarding the assignments for this course will be posted on Canvas.

Literature Review and Oral Presentation. To be discussed in class.

Data collection and in-class activities: Class activities will vary from off-site data collection to in-class discussions. Students are expected to participate in all discussions.

Grades and Grade Points

For information on current UF policies for assigning grade points, see
https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/.

Performance Indicators		Points
IRB training completed		50
Good Clinical Practice training completed		50
Belmont Report Reflection		50
Scientific reading and assignments 5 at 20 points each		100
Brief Literature Review		50
Oral Presentation		50
Data collection and in-class activity reflections (estimated 5 at 30 pts each)		150
Total		**500**

<u>Grading Scale</u>**: Grades will be posted on e-Learning in Canvas. Grades are not curved and are not negotiable.**

A = 467-500 93.34-100%	A⁻ = 450-466 90-93.33%	B+ = 433-449 86.68-89.9%	B = 417-432 83.34-86.67%	B⁻ = 400-416 80-83.33%	C+ = 383-399 76.68-79.9%
C = 367-382 73.34-76.67%	C⁻ = 350-366 70-73.33%	D+ =334-349 66.68-69.9%	D = 317-333 63.34-66.67%	D⁻ =300-316 60-63.33%	E = <300 <60%

Supplementary Information

Supplementary information, announcements, reminders, and critical thinking exercises will be posted on e-Learning in Canvas or the class listserv.

Attendance and Make-Up Work

Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/.

Our class sessions may be audio-visually recorded for students in the class to refer back to and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who unmute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Online Course Evaluation Process

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at: https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at: https://gatorevals.aa.ufl.edu/public-results/.

Academic Honesty

As a student at the University of Florida, you have committed yourself to upholding the Honor Code, which includes the following pledge: "*We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.*" You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: "*On my honor, I have neither given nor received unauthorized aid in doing this assignment.*"

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g., assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to the appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see:
http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code.

Software Use

All faculty, staff, and students at the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

Services for Students with Disabilities

The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability-related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation. 0001 Reid Hall, 352-392-8565, https://disability.ufl.edu/

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.

- *University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,* **www.counseling.ufl.edu**
- Counseling Services Groups and Workshops Outreach and Consultation Self-Help Library Wellness Coaching
- U Matter We Care, **www.umatter.ufl.edu/**
- *Career Connections Center,* First Floor JWRU, 392-1601, https://career.ufl.edu/.
- Student Success Initiative, http://studentsuccess.ufl.edu.

Student Complaints:

- • Residential Course: https://sccr.dso.ufl.edu/policies/student-honor-code-student- conduct-code/.
- • Online Course: https://distance.ufl.edu/state-authorization-status/#student-complaint

Spring 2024 Tentative Class Schedule*

Date		Topic	Activities/Assignments
January	10	Course Welcome and Introductions	IRB and HIPAA Training
	17	Introduction to Medical Nutrition Research – Graduate Student Guest Speakers	Good Clinical Practice Training
	24	Guest Speaker: Nutrition and Neurological Disease	Good Clinical Practice Training
	31	Dietary Assessment Methods and Practice	Scientific reading 1
February	7	Neuro Research Study Overview and IRB	Scientific reading 2/Activity 1
	14	Review of Study Protocol and Survey Tools	Scientific reading 3/Activity 2
	21	Data collection/discussion	Belmont Report reflection due
	28	Data collection/discussion	Scientific reading 4/Activity 3
March	6	Data analysis/statistics	Scientific reading 5/Activity 4
	13	***Spring Break***	*Group URS abstract due March 11th*
	20	Is it science? Searching and citing literature	
	27	Data synthesis/poster preparation	Literature Review due
April	3	No class in lieu of *Undergraduate Research Symposium (April 1st)*	Activity 5
	10	Student MNR presentations	Presentation due
	17	Student MNR presentations	Presentation due
	24	Final discussions	

*All dates/topics are subject to change due to the data collection schedule.
IRB: Institutional Review Board; MNR: Medical Nutrition Research