

HUN4445 section 1643
Nutrition and Disease – Part I
Fall 2014

Instructor

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Office Hours: Monday 9am-11pm, Tuesday 11am-1pm, or by appointment

*Note: No office hours on Tuesday, September 16

Course Location & Meeting Times

Tuesday and Thursday 5:10-6:00 pm, G086 McCarty B

Course Description

Part one of a two-semester sequence that focuses on assessing the nutritional status of individuals and on the biochemical and pathophysiological bases of diseases and conditions that require specialized nutrition support or medical nutrition therapy. Prereq: HUN2201, CHM2211; Coreq: BCH3025 or BCH4024 and APK2015C or PCB4723C; Credits: 2

Required Materials

- Non-programmable calculator
- Reliable access to the internet, and to e-Learning (Canvas)
 - Canvas will be used for announcements, grade posting, posting class notes for lectures and other information. If you are not familiar with Canvas, please review the website: <http://lss.at.ufl.edu>
- Access to MS Word and MS Powerpoint software

Course goals/Competencies

Upon completion of this course, students should be able to:

1. Describe how to conduct a comprehensive nutrition assessment
2. Describe the etiology, symptoms, clinical findings and pathophysiology associated with diseases and conditions covered in this course.
3. Describe the nutritional management of the diseases and conditions covered in this course.
4. Differentiate between enteral and parenteral nutrition; identify appropriate situations for using these feeding modalities; calculate the energy, protein and fluid content of formulas; and make appropriate recommendations with regard to initiation and monitoring of enteral and parenteral solutions.
5. Evaluate the impact of food/nutrient-drug interactions on nutritional status and drug efficacy and recommend appropriate intervention strategies.
6. Discuss reimbursement of nutrition services under various organizational approaches to delivering health care.

- Describe research designs used in nutrition research and discuss their strengths and limitations and the features that increase confidence that results are valid.

Recommended Text:

Nelms M, Sucher K, Lacey K, Roth S. (2011). Nutrition Therapy and Pathophysiology, 2nd Edition. Belmont, CA: Brooks/Cole, Cengage Learning.
(ISBN-13: 978-1-4390-4962-4)

Student Evaluation:

Final grades will be based on five “Question of the Day” quizzes, one case study, one research article assignment, three unit exams, and a final examination.

Question of the Day quizzes will be given on randomly selected days throughout the semester, and will consist of one question based on material covered in the class prior. These quizzes will not be announced ahead of time, and will be given in the first few minutes of class. Therefore the only way to get credit for these quizzes is to attend class, and to be on time. No make-up quizzes will be allowed.

Exams must be taken as scheduled. Absence from an exam will result in a score of 0 unless there are unavoidable extenuating circumstances that can be documented to the satisfaction of the instructor. Extenuating circumstances include unavoidable unplanned situations such as illness (chart note from physician or clinic); family death (dated obituary); accident (police report); etc.

Extra credit projects will not be available.

Performance indicators

Question of the Day Quizzes	25
Case Study	15
Research article	10
Exams 1, 2 & 3 @ 100 points each	300
Final exam (3/4 comprehensive + 1/4 new material)	<u>150</u>
Total	500

Grades are not negotiable and will be assigned according to the following scale:

467-500	93.34-100%	A	333-349	66.68-69.9%	D+
450-466	90-93.33%	A-	316-332	63.34-66.67%	D
433-449	86.68-89.9%	B+	300-315	60-63.33%	D-
417-432	83.34-86.67%	B	<300	<60%	E
400-416	80-83.33%	B-			
383-399	76.68-79.9%	C+			
367-382	73.34-76.67%	C			
350-366	70-73.33%	C-			

Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

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>.

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold 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 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/honorcodes/honorcode.php>.

Software Use:

All faculty, staff and students of 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.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general wellbeing 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.

Service	Location	Phone	Web site	Services provided
University Counseling and Wellness Center	3190 Radio Road	352-392-1575	www.counseling.ufl.edu/cwc/	Counseling Services Groups and Workshops Outreach and Consultation Self-Help Library Wellness Coaching
Career Resource Center	First Floor J. Wayne Reitz Union	352-392-1601	www.crc.ufl.edu	Career development assistance and counseling

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. Contact information: 0001 Reid Hall, 392-8565, www.dso.ufl.edu/drc/.

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. These evaluations are conducted online at <https://evaluations.ufl.edu>. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results>.

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Reading and Writing Center: The Reading and Writing Center is committed to helping University of Florida students become better writers and readers. Individual assistance is provided and students of all levels and disciplines are welcome. <http://at.ufl.edu/rwcenter>. Fall hours are M-F 9:00 AM to 5:00 PM. The Center is located in Broward Hall.

Other Information: Lecture material and information are the property of the University of Florida and the course instructor and may not be used for any commercial purpose. Students found in violation may be subject to disciplinary action under the University's Student Conduct Code. Only students formally registered for the course are permitted to attend lectures and take quizzes/tests.

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

Fall 2014 Class Schedule

Date	Topic	Textbook Readings	Assignments Due	Exams and Quizzes
August 26	Nutrition Care Process	pg. 13-32		
August 28	Nutrition Screening	pg. 34-40		
September 2	Anthropometric Assessment	pg. 45-48		
September 4	Body Composition Assessment	pg. 49-52, 247-249		
September 9	Dietary Assessment	pg. 38-45		
September 11	Estimating Energy Needs	pg. 59-61, 238-244		
September 16 OUT OF TOWN	Estimating Protein and Fluid Needs, Biochemical and Hematological Assessment	pg. 52-57, 123	Be sure to have watched recorded lecture ahead of time, and be prepared for an in-class activity	
September 18 OUT OF TOWN	Review for Exam			
September 23	Exam 1			EXAM 1
September 25	GI Physiology	pg. 340-358, 376-385, 398-401, 424-428		
September 30	Enteral Nutrition	pg. 81-93		
October 2	Enteral Nutrition			
October 7	Enteral Nutrition			
October 9	Parenteral Nutrition			
October 14	Parenteral Nutrition	pg. 93-101		
October 16	Case Study			
October 21	Review for Exam			

October 23	Exam 2			EXAM 2
October 28	Cancer			
October 30	Cancer Therapy	pg. 702-732		
November 4	Critical Care			
November 6	Critical Care	pg. 682-699	Research Article Due	
November 11 VETERANS DAY	NO CLASS			
November 13	Review for Exam		Case Study Due	
November 18	Exam 3			EXAM 3
November 20	Drug Nutrient Interactions	pg. 208-234		
November 25	Interpreting Nutrition Research			
November 27- THANKSGIVING	NO CLASS			
December 2	HIV/AIDS	pg. 735-765		
December 4	Honors Section Case Presentations			
December 9	Review for Final Exam			
December 15, 10:00am-12:00pm	Final exam, G086 MCCB			FINAL EXAM