

HUN4445 section 1116
Nutrition and Disease – Part I
Spring 2015

Instructor

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Walk-in office hours: Tuesdays 3:00 – 5:00 p.m. and Thursday 10:00 a.m.-12:00 p.m. or available by appointment – email Dr. Dahl

Course Location & Meeting Times

Tuesday and Thursday 1:55 to 2:45 p.m., FAB 105

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

Course goals/Competencies

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

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

Teaching Assistant:

Shireen Flores
srflores@ufl.edu

Required Materials

Non-programmable calculator

Access to Sakai

Access to MS Word and MS Powerpoint software

HUN 4445 uses Sakai for announcements, grade posting, posting class notes for lectures and other information. If you are not familiar with Sakai, you should review the website:

<http://lss.at.ufl.edu>

Recommended Text:

Nelms M, Sucher KP, Lacey K, Long Roth S. Nutrition Therapy and Pathophysiology 2nd Ed. Cengage Learning. 2011.

or

Nelms M, Sucher KP & Lacey K. Nutrition Therapy and Pathophysiology 3rd Ed. Cengage Learning. 2016. (Available January 1, 2015)

Student Evaluation:

Three E-Learning quizzes (the lowest score will be dropped), three examinations, a research article assignment and a final examination will be used to evaluate student performance. Quizzes will be announced in class and will be available for 24 hours. No make-up quizzes are scheduled. 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 my satisfaction. Extenuating circumstances include unavoidable unplanned situations such as illness (chart note from physician or clinic; vague notes such as “was seen” are not acceptable) family death (dated obituary); accident (police report); etc. **Extra credit projects will not be available.**

Performance indicators

2 Sakai online quizzes (highest 2 of 3 quizzes)	40
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 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/cwc/*
 - Counseling Services
 - Groups and Workshops
 - Outreach and Consultation
 - Self-Help Library
 - Training Programs
 - Community Provider Database
- *Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/*

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, www.dso.ufl.edu/drc/

Spring 2015 Class Schedule

Date	Topic	Textbook Readings (Choose either textbook edition)
January 6	Nutrition Care Process	Nelms 2011: pp 13-32 Nelms 2016: pp 17-32
January 8	Nutrition Screening	Nelms 2011: pp 34-38 Nelms 2016: pp 36-41
January 13	Anthropometric Assessment	Nelms 2011: pp 45-48 Nelms 2016: pp 49-52
January 15	Body Composition Assessment	Nelms 2011: pp 49-52, 247-249 Nelms 2016: pp 52-56, 255-259
January 20	Dietary Assessment	Nelms 2011: pp 38-45 Nelms 2016: pp 41-49
January 22	Estimating Energy Needs	Nelms 2011: pp 59-62, 238-244 Nelms 2016: pp 62-67, 250-254
January 27	Protein & Fluid Needs; Biochemical & Hematological Assessment	Nelms 2011: pp 52-58, 123 Nelms 2016: pp 56-61, 130
January 30	Case Study 1	
February 3	Exam 1	
February 5	GI Physiology – upper	Nelms 2011: pp 340-358, Nelms 2016: pp 342-373,
February 10	GI Physiology - lower	Nelms 2011: 376-401, 423-428 Nelms 2016: 379-404, 424-429
February 12	Enteral Nutrition	Nelms 2011: pp 81-93 Nelms 2016: pp 90-103
February 17	Enteral Nutrition	
February 19	Enteral Nutrition	
February 24	Parenteral Nutrition	Nelms 2011: pp 93-101 Nelms 2016: pp 103-111
February 26	Parenteral Nutrition	
March 3	<i>Spring Break</i>	
March 5	<i>Spring Break</i>	
March 10	Case Study 2	
March 12	Review for Exam	
March 17	Exam 2	
March 19	Cancer	Nelms 2011: pp 702-732 Nelms 2016: pp 686-698

March 24	Cancer Therapy	Nelms 2011: pp 364-366, 423-429 Nelms 2016: pp 698-706
March 26	Critical Care	Nelms, 2011: pp 682-699 Nelms 2016: pp 667-681
March 31	Critical Care	
April 2	Review	
April 7	Exam 3	
April 9	Drug-Nutrient Interactions	Nelms 2011: pp 208-233 Nelms 2016: pp 217-239
April 14	Interpreting Nutrition Research	
April 16	HIV/AIDS	Nelms 2011: pp 735-763 Nelms 2016: pp 711-729
April 21	Case Study 3 - Review	Research article due
April 30	Final Exam 10:00 – 12: 00 a.m.	