

**HUN4445 section 1116**  
**Nutrition and Disease – Part I**  
**Spring 2014**

**Instructor**

Wendy Dahl PhD RD

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

**Course Location & Meeting Times**

Tuesday 1:55 - 2:45 MCCA G186 and Thursday 1:55 – 2:45 WEIM 1084

**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. Describe the Nutrition Care Process
2. Discuss reimbursement of nutrition services under various organizational approaches to delivering health care.
3. Conduct comprehensive nutrition assessment.
4. Describe the digestion and absorption of macronutrients and micronutrients, and how disease and the treatment of diseases covered in this course impact these processes.
5. Describe the etiology, symptoms, clinical findings and pathophysiology associated with diseases and conditions covered in this course.
6. Describe the nutritional management of the diseases and conditions covered in this course.
7. Evaluate the impact of food/nutrient-drug interactions on nutritional status and drug efficacy and recommend appropriate intervention strategies.
8. 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.
9. 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:**

Amanda Ford

Email: [gator888@ufl.edu](mailto:gator888@ufl.edu)

Office hours: TBA

**Required Materials**

Non-programmable calculator

Access to WWW and Sakai

Access to MS Word and MS Powerpoint software

HUN 4445 uses E-Learning in Sakai for announcements, grade posting, posting class notes for lectures and other information. If you are not familiar with E-Learning, 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 2<sup>nd</sup> Ed. Thomson Brooks/Cole. 2011.

**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 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 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. One original research article with the study design identified will be handed in during class on November 10. **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>

### **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/ugrad/current/regulations/info/attendance.aspx>.

### **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>.

### **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/process/student-conduct-honor-code>.

### **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.

### **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/](http://www.dso.ufl.edu/drc/)

### **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/](http://www.counseling.ufl.edu/cwc/)

- Counseling Services
- Groups and Workshops
- Outreach and Consultation
- Self-Help Library
- Wellness Coaching

*Career Resource Center, First Floor JWRU, 392-1601, [www.crc.ufl.edu/](http://www.crc.ufl.edu/)*

### Spring 2014 Class Schedule

<b>Date</b>	<b>Topic</b>	<b>Textbook Readings</b>
January 7	Nutrition Care Process	Nelms, 2011: pp 13-32
January 9	Nutrition Screening/Services	Nelms, 2011: pp 34-40
January 14	Anthropometric Assessment	Nelms, 2011: pp 45-48
January 16	Body Composition Assessment	Nelms, 2011: pp 49-52, 247-249
January 21	Dietary Assessment	Nelms, 2011: pp 40-46
January 23	Energy Assessment	Nelms, 2011: pp 59-62, 238-244
January 28	Protein, Fluid, Biochemical, Hematological Assessment	Nelms, 2011: pp 52-58, 123
January 30	Case Study	
February 4	Review for exam	
February 6	<b>Exam 1</b>	
February 11	GI Physiology	Nelms, 2011: pp 340-351, 352-355
February 13	GI Pathophysiology	
February 18	Drug-Nutrient Interactions	Nelms, 2011: pp 209-234
February 20	Cancer	Nelms, 2011: pp 702-732
February 25	Cancer Therapy	Nelms, 2011: pp 364-366, 424-429
February 27	<b>Exam 2</b>	
March 4	Spring Break	
March 6	Spring Break	
March 11	Metabolic Stress/Injury	Nelms, 2011: pp 683-688
March 13	Metabolic Stress/Injury	
March 18	Enteral Nutrition	Nelms, 2011: pp 81-93
March 20	Enteral Nutrition	
March 25	Enteral Nutrition	
March 27	Parenteral Nutrition	Nelms, 2011: pp 93-101
April 1	Parenteral Nutrition	
April 3	Case Study	
April 8	<b>Exam 3</b>	
April 10	Neurological Disease	
April 15	AIDS/HIV	Nelms, 2011: pp 735-766
April 17	Hot Topic in Nutrition & Disease	<b>Research article due – in class</b>
April 22	Case Study Review	
<b>May 1 7:30-9:30 a.m.</b>	<b>Final Exam</b>	