

**HUN4445 section 1116 (2 credit)**  
**Nutrition and Disease – Part I**  
**Fall 2016**

**Instructor**

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Walk-in office hours: Tuesday 3:00 – 5:00 p.m. and Thursday 10:30 a.m. – 12:30 p.m. or by appointment – email Dr. Dahl

**Course Location & Meeting Times**

Tuesday and Thursday 9:35 – 10:25 a.m. MCCB G086

**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 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. Describe research designs used in nutrition research and discuss their strengths and limitations and the features that increase confidence that results are valid.
7. Describe a selected complementary medical therapy used by consumers in the pursuit of health.

**Teaching Assistant**

TBA

## Required Materials

Non-programmable calculator

Access to Word and Powerpoint software

HUN4445 uses Canvas for announcements, grade posting, posting class notes for lectures and other information. If you are not familiar with Canvas, you should review the website:

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

## Recommended Text

Nelms M, Sucher KP & Lacey K. Nutrition Therapy and Pathophysiology 3<sup>rd</sup> Ed. Cengage Learning. 2016

## Student Evaluation

Three Canvas 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. 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. **Extra credit projects will not be available.**

### Performance indicators

2 Canvas 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**

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

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.

- 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
- U Matter We Care, [www.umatter.ufl.edu/](http://www.umatter.ufl.edu/)
- Career Resource Center, First Floor JWRU, 392-1601, [www.crc.ufl.edu/](http://www.crc.ufl.edu/)

### Fall 2016 Class Schedule

<b>Date</b>	<b>Topic</b>	<b>Textbook Readings</b>
August 23	Nutritional Risk and Screening	Nelms 2016: pp 36-41
August 25	Nutrition Care Process	Nelms 2016: pp 17-32
August 30	Anthropometric Assessment	Nelms 2016: pp 49-52
September 1	Body Composition Assessment	Nelms 2016: pp 52-56, 255-259
September 6	Dietary Assessment	Nelms 2016: pp 41-49
September 8	Estimating Energy Needs	Nelms 2016: pp 62-67, 250-254
September 13	Protein & Fluid Needs; Biochemical & Hematological Assessment	Nelms 2016: pp 56-61, 130
September 15	Case Study 1 – International	
September 20	Exam 1	
September 22	GI Physiology and disease – upper	Boland 2015; Nelms 2016: pp 342-373
September 27	GI Physiology and disease – lower	Nelms 2016: 379-404, 424-429
September 29	GI Physiology and disease – lower	
October 4	Enteral Nutrition	Nelms 2016: pp 90-103
October 6	Enteral Nutrition	
October 11	Enteral Nutrition	
October 13	Parenteral Nutrition	Nelms 2016: pp 103-111
October 18	Parenteral Nutrition	
October 20	Case Study 2	
October 25	Exam 2	
October 27	Adult Malnutrition	ASPEN Guidelines (see Canvas)
November 1	Cancer	Nelms 2016: pp 686-698
November 3	Cancer Therapy	Nelms 2016: pp 698-706
November 8	Critical Care	Nelms 2016: pp 667-681
November 10	Critical Care	
November 15	Case Study 3	
November 17	Exam 3	
November 22	Interpreting Nutrition Research	Boushey et al 2006 (see Canvas)
November 24	<i>Thanksgiving – No class</i>	
November 29	Drug-Nutrient Interactions	Nelms 2016: pp 217-239
December 1	HIV/AIDS	Nelms 2016: pp 711-729
December 6	Hot Topic	TBA
December 13 5:30 -7:30 pm	Final Exam	