

HUN4445
Nutrition and Disease – Part I: Summer 2023

Instructor

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Office Hours on Zoom by appointment

Teaching Assistant

TBA

Course Location & Meeting Times

This is an online, synchronous course with additional asynchronous material to view throughout each week. We will meet on Zoom on Mondays and Wednesdays 11:00am-12:15pm

Monday Zoom Classroom:

<https://ufl.zoom.us/j/96853463954?pwd=VlpSMTVPRkxTa2lyb05zOHFjRGJVdz09>

Meeting ID: 968 5346 3954

Passcode: 751474

Wednesday Zoom Classroom:

<https://ufl.zoom.us/j/92797660523?pwd=Zk9TQjRjWG0wZG5laDJuQjhydkVPZz09>

Meeting ID: 927 9766 0523

Passcode: 157265

Note that our class sessions may be audio visually recorded. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

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.

Prerequisites: Fundamentals of Human Nutrition (HUN2201) and Organic Chemistry 2 (CHM2211)

Corequisites: Biochemistry (BCH3025 or BCH4024) and Physiology (APK2015C or PCB4723C)

Credits: 2

Required Materials

- Computer with reliable internet access
- Webcam and microphone
- Access to e-Learning (Canvas): <https://elearning.ufl.edu/>

- Access to Zoom: <https://ufl.zoom.us>
- Google Chrome browser with the HonorLock extension installed
 - Chrome can be downloaded here: <https://www.google.com/chrome>
 - The HonorLock Extension can be downloaded here: <https://static.honorlock.com/install/extension>
- Access to MS Word, MS PowerPoint, and PDF reader software

Course Objectives

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. 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. (2020). Nutrition Therapy and Pathophysiology, 4th Edition. Boston, MA: Cengage Learning. ISBN-13: 978-0357041710
- OR**
- Nelms M, Sucher K, Lacey K. (2016). Nutrition Therapy and Pathophysiology, 3rd Edition. Boston, MA: Cengage Learning. ISBN-13: 978-1305111967

Course Format

We will use a “flipped classroom” model in this course. Course content will be posted on Fridays for the upcoming week. Students are expected to watch recorded lectures and come to class prepared to discuss the material and participate in course activities.

Attendance

Attendance is required for this course. “Attendance” is more than just logging into class on Zoom. It means being attentive and engaged, and not working on other tasks. Come to class in a quiet space without distractions. You should not be working at a job, traveling, “multitasking”, etc. **You must have your camera on in order to be counted as “present”**. If you must keep your camera off for some reason, **communicate with the course TA about this ahead of time (with cc to Dr. Acosta)**.

Each student is allowed 1 absence that will not count against your grade. After that, there will be a 5 point deduction for each absence. Tardiness is unacceptable in the workplace and therefore also inappropriate in the classroom. Students who are more than 10 minutes late will lose 2 points from their attendance grade each time they are tardy.

Student Evaluation

Final grades will be based on attendance, in-class activities, weekly online quizzes, and three unit exams.

Quizzes: Quizzes will be given in Canvas. They are due on Thursdays at 11:59pm.

Exams: Exams will be given on Canvas, using HonorLock. They will be given every other Friday, and will be available from 8am-8pm. Exams are designed to take 60 minutes. However, everyone will be given double time (120 minutes) for exams. Failure to take an exam will result in a score of 0.

Extra credit projects will not be available.

Performance Indicators

Attendance	20
In-class Activities (must be present in class to participate)	30
6 Weekly Quizzes (20 points each, lowest score dropped)	100
Exams 1, 2 & 3 @ 150 points each	450
Total	600

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

560-600	93.34-100%	A	400-419	66.68-69.9%	D+
540-559	90-93.33%	A-	380-399	63.34-66.67%	D
520-539	86.68-89.9%	B+	360-379	60-63.33%	D-
500-519	83.34-86.67%	B	<360	<60%	E
480-499	80-83.33%	B-			
460-479	76.68-79.9%	C+			
440-459	73.34-76.67%	C			
420-439	70-73.33%	C-			

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/>

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/UGRD/academic-regulations/attendance-policies/>

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 by abiding by the Student Honor Code."* 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: <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-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.

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	Phone	Web site	Services provided
University Counseling and Wellness Center	352-392-1575	https://counseling.ufl.edu/	<ul style="list-style-type: none"> • Counseling Services • Groups and Workshops • Outreach and Consultation • Self-Help Library • Wellness Coaching
U Matter We Care	umatter@ufl.edu 352-392-1575	http://www.umatter.ufl.edu/	Support for students in distress
Career Connections Center	352-392-1601	https://career.ufl.edu/	Career development assistance and counseling

Services for Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center (DRC). The DRC coordinates needed accommodations, including accommodations within the classroom, adaptive computer equipment, interpretation services, and mediation for faculty-student

disability related issues. Here is the link to get started with the DRC: <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructors and discuss their access needs as early as possible in the semester.

Online Course Evaluation Process

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/>.

Writing Studio

The Writing Studio is committed to helping University of Florida students meet their academic and professional goals by becoming better writers. Individual assistance is provided and students of all levels and disciplines are welcome (<https://writing.ufl.edu/writing-studio/>). Their main office is 302 Tigert Hall, and their office phone is (352) 846-1138.

Course Material Copyright and Confidentiality

All course material is the property of the University of Florida and the course instructor, and **may not** be posted online for any commercial or non-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.

Filing a Complaint

The University of Florida believes strongly in the ability of students to express concerns regarding their experiences at the University. The University encourages its students who wish to file a written complaint to submit that complaint directly to the department that manages that policy.

A student who is unsure as to the official responsible for handling his or her particular complaint may contact the Ombuds office or the Dean of Students Office. For complaints that are not satisfactorily resolved at the department level or which seem to be broader than one department, students are encouraged to submit those complaints to one of the following offices:

Ombuds: <http://www.ombuds.ufl.edu/>
352-392-1308

The purpose of the Ombuds office is to assist students in resolving problems and conflicts that arise in the course of interacting with the University of Florida. By considering problems in an unbiased way, the Ombuds works to achieve a fair resolution and works to protect the rights of all parties involved.

Dean of Students Office: <http://www.dso.ufl.edu/>
352-392-1261

The Dean of Students Office works with students, faculty, and families to address a broad range of complaints either through directly assisting the student involved to resolve the issue, working with the student to contact the appropriate personnel, or referring the student to resources or offices that can directly address the issue. Follow up is provided to the student until the situation is resolved.

Additionally, the University of Florida regulations provide a procedure for filing a formal grievance in Regulation 4.012: <http://regulations.ufl.edu/regulations/uf-4-student-affairs/>

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.

Summer 2023 Class Schedule

	Date	Class Meetings (11:00am-12:15pm unless otherwise noted)	Topics	Optional Textbook Readings (Nelms, Sucher) 3 rd = Third Edition 4 th = Fourth Edition Additional supplemental readings will be posted on Canvas	Quizzes and Exams
Week 1	Monday May 15 through Friday May 19	Monday, May 15 <i>(*No class meeting on Wednesday, May 17)</i>	Syllabus and Expectations The Nutrition Care Process Nutrition Screening Anthropometrics Body Composition Malnutrition	3 rd : Chapters 2 and 3 4 th : Chapters 2 and 3	Week 1 quiz due Thursday, May 18
Week 2	Monday May 22 through Friday May 26	Monday, May 22 Wednesday, May 24 <i>Optional Review Session: Thursday, May 25 – Time TBA</i>	Dietary Assessment Estimating Energy Needs Estimating Protein Needs Estimating Fluid Needs Interpreting Labs	3 rd : Chapters 2 and 3 4 th : Chapters 2 and 3	Week 2 quiz due Thursday, May 25 EXAM 1: FRIDAY, MAY 26 (8am-8pm, HonorLock)
Week 3	Monday May 29 through Friday June 2	<i>(*No class meeting on Monday, May 29, Memorial Day)</i> Wednesday, May 31	Enteral Nutrition	3 rd : Chapter 5 4 th : Chapter 5	Week 3 quiz due Thursday, June 1

Week 4	Monday June 5 through Friday June 9	Monday, June 5 Wednesday, June 7 <i>Optional Review Session:</i> Thursday, June 8 – Time TBA	Parenteral Nutrition	3 rd : Chapter 5 4 th : Chapter 5	Week 4 quiz due Thursday, June 8 EXAM 2: FRIDAY, JUNE 9 (8am-8pm, HonorLock)
Week 5	Monday June 12 through Friday June 16	Monday, June 12 Wednesday, June 14	Cancer Critical Care Pharmacology	3 rd : Chapters 11, 22, 23 and 24 4 th : Chapters 11, 22, and 23	Week 5 quiz due Thursday, June 15
Week 6	Monday June 19 through Friday June 23	Monday, June 19 Wednesday, June 21 <i>Optional Review Session:</i> Thursday, June 22 – Time TBA	HIV/AIDS Renal		Week 6 quiz due Thursday, June 22 EXAM 3: FRIDAY, JUNE 23 (8am-8pm, HonorLock)