

**HUN 4446**  
**NUTRITION AND DISEASE - PART 2**  
**SPRING 2014- Section 1118**

**Instructor:** Anne Mathews, PhD, RD  
**Department:** Food Science & Human Nutrition (FSHN)  
**Office:** FSHN Building, Room 227  
**Phone:** 352-392-1991 ext 286  
**Email:** anne.mathews@ufl.edu  
**Office hours:** WED 2-4pm

**Teaching assistant:** Caroline Dunn  
**Email:** cgdunn@ufl.edu  
**Office hours:** MON 9:30-10:30am; WED 8:30-10:30am  
**Location:** 232 FSHN Building

**Class meeting time:** TUE: 11:45am – 1:40pm; THURS: 12:50 - 1:40pm  
**Attendance:** Required  
**Location:** E121 CSE Building  
**Credits:** 3

**Course Description and Prerequisites:** Part 2 of a two-semester sequence that focuses on the biochemical and pathophysiological bases of diseases/conditions that require nutrition support/medical nutrition therapy. Prerequisites: HUN 4445; BCH 3025 or BCH 4024; APK 2105C (formerly PET 2350C) or PCB 4723C.

**Course Goals/Competencies:** Upon completion of this course, students should be able to:

1. Describe the risk factors, etiology, symptoms, clinical findings, and pathophysiology associated with diseases/conditions covered in this course.
2. Describe the diagnostic tests/procedures and the intervention strategies used in the treatment of diseases/conditions covered in this course.
3. Evaluate the impact of selected food/nutrient-drug interactions on nutritional status/drug efficacy and recommend appropriate intervention strategies.
4. Relate the theoretical bases for nutrition/medical intervention strategies with the anatomical, physiological, and/or biochemical changes that occur in diseases/conditions covered in this course.
5. Identify examples of nutrient-gene interactions, apply concepts related to nutrigenetics/nutrigenomics and epigenetics, and describe the potential impact of genomic and epigenomic research on nutrition and medical practice.
6. Identify appropriate recommendations for the management of patients with diseases/conditions covered in this course.

**Required Materials:**

- i>clicker© Remote Response Device (“clicker”): Available for purchase at the UF Bookstore (purchase from cashier) OR a Smartphone/iPhone/laptop/iPad/tablet that is compatible with the i>clicker© GO response system. (See below for more information.)
- HUN 4446 Course Notes: Target Copy 1412 West University Avenue, Gainesville, FL. (or print your own copy of the objectives and the PowerPoint slides for each unit of study from Sakai; see below for access information)
- Course information and materials posted on Sakai.

**Recommended Materials:**

- *Nutrition Therapy and Pathophysiology* (2<sup>nd</sup> edition) by Nelms, Sucher, Lacey and Ross, 2011.

### How to Access Sakai:

- Access requires a Gatorlink account. If you need to establish a Gatorlink account, go to <http://www.gatorlink.ufl.edu/>.
- Once you have created a Gatorlink account, access e-Learning Support Services homepage at <https://lss.at.ufl.edu>. Select "Sakai System Entry". Log in using your Gatorlink ID. HUN 4446 should be listed under "My Workspace". If you are unfamiliar with Sakai, select "Tutorials" from the "Services" menu, then "e-Learning in Sakai" and finally, "Student Tutorials".

**Class Attendance and Demeanor:** Students are expected to attend all classes, to bring their i>clicker® "clicker" or Smartphone/iPhone/laptop/iPad/tablet computer to every class, to arrive on time and to leave when dismissed by the instructor. Students are expected to show courtesy to their classmates and instructor by turning cell phones off before the class period begins and refraining from using a computer (or other type of personal device) for any purpose other than taking notes, viewing PowerPoint slides being discussed in class or using it in place of the clicker device to answer questions. Students also are expected to refrain from engaging in personal conversations during class.

### 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>.

**Student Evaluation:** Three tests, a final exam, one assignment, in class participation, and 4 online quizzes will be used to evaluate student performance. Tests/exams and quizzes must be taken as scheduled. University approved activities that conflict with exams should be brought to the instructor's attention in advance so that alternative arrangements can be made. An unexcused absence from a test will result in a score of "0" unless there are unavoidable extenuating circumstances (subject to my discretion) 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. Failure to complete a quiz within the time frame allowed will result in a grade of "0". Extra credit projects will **NOT** be available.

**Assignment:** Detailed information for completing the assignment for this course will be distributed separately. The assignment (submit a hardcopy of the assignment only) is due **by 5:00 PM on March 20, 2014**. Failure to submit the assignment on the designated due date will result in a grade of "0".

**Quizzes** will be announced in class. Quizzes will be administered through e-Learning/Sakai. You will have **25 minutes to complete each quiz** beginning from the time you open the quiz. Quizzes will be available for you to take for a 24 hour period (from 2:00 PM on day the quiz is announced until 1:59 PM the following day). The lowest quiz score (or missed quiz) will be dropped.

**In Class Participation:** In class participation will be evaluated using the i>clicker® ("clicker") or via your Smartphone/iPhone/laptop computer/iPad/tablet. I have selected to use the i>clicker® system for several reasons, all of which I hope will make for a better learning experience for you, as well as provide you with the opportunity to improve your performance in the class. (See separate handout for details.)

- We will practice using the clickers during the first few class periods. I will officially begin recording response card ("clicker") responses that count toward your final grade **beginning January 23, 2014**.
- Questions asked during class may include material just covered in class, material covered from previous lectures, and opinion questions or other types of "informational" questions.
- Content questions will be graded, with partial credit given for incorrect answers.
- Questions may be asked at any point during the class, and on some days, more than one question may be asked. You will be given a set amount of time to respond, but once the "polling time" has ended, it will not be possible to register your response so you should be sure to get to class on

time and to have your “clicker” (or other i>clicker© compatible device) with you and ready to use.

- A total of 45 points for the semester will be considered a perfect “in class participation” score. To allow for technical problems, failure to bring your response card to class, response card failure (i.e., dead battery; malfunction), unexcused absences, etc, I will offer a minimum of 55 points during the semester (**starting on January 23** forward). Points earned in excess of the number needed for a perfect “in class participation” score (i.e., 45 points) will count as bonus points toward your final grade. This means that you have the opportunity to earn at least 10 bonus points, in addition to the 2 bonus points I offer in exchange for completing and submitting an electronic version of your student information card (follow directions provided on e-Learning/Sakai). Depending on where you stand in the course, these extra points could improve your final grade.
- **Please note:** You are on your honor (see UF Academic Honesty Policy below) to register responses only for yourself. This means you personally must be in class and use your personal response card to register your answers. **Registering responses for someone else or having someone else register responses for you is a form of cheating.** If you are caught cheating the system, you and the other party(ies) involved will, at a minimum, forfeit all of your points for the semester, and you could be prosecuted through the Student Honor Court. If you are not caught, you will have to deal with your conscience and personal ethics, which may not seem like a big deal now, but may catch up with you some day.

### Evaluation of Performance/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>

Performance Indicators	Points
Tests 3 @ ~80 points each (this is the average points, some tests will have slightly more or slightly less points)	240
Final Exam (~½ comprehensive, ~½ new material)	120
Assignment	40
Class Participation (out of a minimum of 55 points; points above 45 = bonus pts)	45
Quizzes (online) 4 @ ~10 points each (lowest grade dropped)	30
<b>Total</b>	<b>475</b>

**Grading Scale:** Grades will be posted on e-Learning/Sakai. Grades are not curved and are not negotiable.

A = 443-475 93.34-100%	A <sup>-</sup> = 427-442 90-93.33%	B+ = 412-426 86.68-89.9%	B = 396-411 83.34-86.67%	B <sup>-</sup> = 380-395 80-83.33%	C+ = 364-379 76.68-79.9%
C = 348-363 73.34-76.67%	C <sup>-</sup> = 332-347 70-73.33%	D+ = 317-331 66.68-69.9%	D = 301-316 63.34-66.67%	D <sup>-</sup> = 285-300 60-63.33%	E = <285 <60%

**Supplementary Information:** Supplementary information, announcements, reminders, sample test questions, and critical thinking exercises will be posted on e-Learning/Sakai or the class listserv.

### 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.

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

## 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	<a href="http://www.counseling.ufl.edu/cwc/">www.counseling.ufl.edu/cwc/</a>	<ul style="list-style-type: none"><li>▪ Counseling Services</li><li>▪ Groups and Workshops</li><li>▪ Outreach and Consultation</li><li>▪ Self-Help Library</li><li>▪ Wellness Coaching</li></ul>

Service	Location	Phone	Web site	Services provided
Career Resource Center	First Floor J. Wayne Reitz Union	352-392-1601	<a href="http://www.crc.ufl.edu">www.crc.ufl.edu</a>	Career development assistance and counseling

**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.

**Spring 2014 Tentative Class Schedule\***

<b>Date</b>			<b>Topic</b>
<b>January</b>	T	7	Course Introduction The Genetic Revolution: New Paradigms for Nutrition and Medical Practice
	Th	9	The Genetic Revolution: New Paradigms for Nutrition and Medical Practice (cont'd)
	T	14	The Genetic Revolution: New Paradigms for Nutrition and Medical Practice (cont'd)
	Th	16	The Genetic Revolution: New Paradigms for Nutrition and Medical Practice (cont'd) Diseases/Disorders of the Upper GI Tract (Chap 14 <sup>†</sup> )
	T	21	Diseases/Disorders of the Upper GI Tract (cont'd)
	Th	23	Diseases/Disorders of the Upper GI Tract (cont'd) <b>Due Date for Student Information Card (submit via Sakai)</b> <b>Clicker Participation Points Start Today!</b>
	T	28	Diseases/Disorders of the Upper GI Tract (cont'd)
	Th	30	Diseases/Disorders of the Lower GI Tract (Chap 15 <sup>†</sup> )
<b>February</b>	T	4	Diseases/Disorders of the Lower GI Tract (cont'd) <b>Review</b>
	Th	6	Diseases/Disorders of the Lower GI Tract (cont'd)
	<b>Th</b>	<b>6</b>	<b>TEST 1 – 8:20 PM – Flint Hall Room 50</b>
	T	11	Diseases/Disorders of the Lower GI Tract (cont'd)
	Th	13	Liver Disease and Alcoholism (Chap 16 <sup>†</sup> )
	T	18	Liver Disease and Alcoholism (cont'd)
	Th	20	Liver Disease and Alcoholism (cont'd)
	T	25	Liver Disease and Alcoholism (cont'd) Diseases of the Gallbladder and Pancreas Chap 16 <sup>†</sup>
	Th	27	Diseases of the Gallbladder and Pancreas (cont'd)

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**Spring 2014 Tentative Class Schedule\* (continued)**

<b>Date</b>			<b>Topic</b>
<b>March</b>	T	4	<b>Spring Break</b>
	Th	6	<b>Spring Break</b>
	T	11	Diseases of the Gallbladder and Pancreas (cont'd) <b>Review</b>
	Th	13	Diabetes Mellitus (Chap 17 <sup>†</sup> )
	<b>Th</b>	<b>13</b>	<b>TEST 2 – 8:20 PM - Flint Hall Room 50</b>
	T	18	<b>Diabetes Mellitus (cont'd)</b>
	<b>Th</b>	<b>20</b>	Diabetes Mellitus (cont'd) <b>ASSIGNMENT DUE BY 5:00 PM (MAILBOX IN 359 FSHN BLDG)</b>
	T	25	Diabetes Mellitus (cont'd)
	Th	27	Diabetes Mellitus (cont'd)
<b>April</b>	T	1	Cardiovascular Disease, Heart Failure & Hypertension (Chap 13 <sup>†</sup> ) <b>Review</b>
	Th	3	Cardiovascular Disease, Heart Failure & Hypertension (cont'd)
	<b>Th</b>	<b>3</b>	<b>TEST 3 8:20 PM - CSE A101</b>
	T	8	Cardiovascular Disease, Heart Failure & Hypertension (cont'd)
	Th	10	Cardiovascular Disease, Heart Failure & Hypertension (cont'd)
	T	15	Cardiovascular Disease, Heart Failure & Hypertension (cont'd) Renal Disease (Chap18 <sup>†</sup> )
	Th	17	Renal Disease (cont'd)
	T	22	Renal Disease (cont'd)
	T	29	<b>FINAL EXAM: 3:00-5:00 PM</b>

\*Subject to change. TBA = To Be Announced.

<sup>†</sup>Chapter numbers correspond with related material published in *Nutrition Therapy and Pathophysiology* by Nelms, Sucher, Lacey and Roth, 2011. This textbook is recommended as an adjunct to class.