

## SYLLABUS

HUN 5441: Metabolic Response to Enteral and Parenteral Nutrition, 2 credits.

Prerequisites: Courses in biochemistry (e.g. BCH 3025), nutrition (e.g. HUN 4445, Disease), and physiology (e.g. PET 2350).

Instructor: Harry S. Sitren, Ph.D.  
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Office hours: M, W, F, 3:30 p.m. - 4:30 p.m.

Description: Response of the body's organ systems to nutritional support by the enteral and parenteral route, with emphasis on physiological and biochemical adaptations of the gastrointestinal tract, liver and pancreas function, muscle, kidney, and bone metabolism, immune function, and micronutrient deficiencies, toxicities, and requirements/recommendations.

Objectives: To analyze in detail the effects of total enteral and parenteral nutrition on organ function, using relevant research studies in humans and in animal models; to discern differences in metabolic responses based on composition of the formula versus route of administration; to delineate the rationale associated with development of disease/disorder-specific nutrient formulas; to describe the appearance of common as well as peculiar nutrient deficiencies/toxicities consequent to enteral and parenteral feeding; and to enumerate nutrient allowances/requirements for energy, fatty acids, nitrogen, vitamins, electrolytes, and trace elements.

Course Format: Lecture by the instructor, with time allocated to class discussion.

Textbook: There is no textbook for the course. Lecture material is referenced during the presentations.

Grading: Two essay exams: midterm and final; each counts one-half.

A= $\geq$ 90, B+=87-89, B=80-86, C+=77-79, C=70-76, D+=67-69, D=60-66, and E= $\leq$ 59.

**Academic Honesty:**

The University of Florida requires all members of its community to be honest in all endeavors. Cheating, plagiarism, and other acts diminish the process of learning. When students enroll at UF they commit themselves to honesty and integrity. Your instructor fully expects you to adhere to the academic honesty guidelines you signed when you were admitted to UF. As a result of completing the registration form at the University of Florida, every student has signed the following statement:

*“I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”* Furthermore, on work submitted for credit by UF students, 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 to be assumed all work will be completed independently unless the assignment is defined as a group project, in writing by the professor.

This policy will be vigorously upheld at all times in this course.

**Students with Disabilities Act:**

The Dean of Students Office coordinates the needed accommodations of students with disabilities. This includes the registration of disabilities, academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability related issues. Dean of Students Office, 202 Peabody Hall, 392-7066. [www.dso.ufl.edu](http://www.dso.ufl.edu)

**Campus Helping Resources:**

Students experiencing crisis or personal problems that interfere with their general well-being are encouraged to utilize the university’s counseling resources. Both the Counseling Center and Student Mental Health provide confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career and academic goals, which interfere with their academic performance. The Counseling Center is located at 301 Peabody Hall (next to Criser Hall). Student Mental Health is located on the second floor of the Student Health Services in the Infirmary.

Service	Location	Phone	Services provided
University Counseling Center	301 Peabody Hall	392-1575	Personal and career counseling <a href="http://www.counsel.ufl.edu">www.counsel.ufl.edu</a>
Student Mental Health	Student Health Care Service	392-1171	Personal counseling <a href="http://www.hsc.ufl.edu/shcc/smhs.htm">www.hsc.ufl.edu/shcc/smhs.htm</a>
Sexual Assault Recovery Services (SARS)	Student Health Care Service	392-1161	Sexual assault counseling
Career Resource Center	Reitz Union	392-1601	Career development assistance and counseling

**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.