

HUN 6301 FALL SEMESTER SYLLABUS

HUN 6301 Nutritional Aspects of Lipid Metabolism (3 credits)

McCarthy Hall A 2186 M 2:00-3:15 (75 min)

W 2:00-3:15 (75 min)

Course Objective: This course introduces students to the fundamental understanding of human lipid metabolism. Students will be exposed to the lipoprotein, cholesterol, triglyceride, nuclear hormone receptors, adipocyte biology, pathogenesis of atherosclerosis, obesity, and insulin resistance and type 2 diabetes

Course Format: Lecture + class presentation + discussion (3 credits)

Instructor: Soonkyu Chung, Ph.D.

Room 303 Food Science and Human Nutrition Bldg., Newell Drive

PO. Box 110370

Phone: 392-1991 x229

Office hours: Appointment by email

References: No textbook is available. Lecture material will include journal references.

Evaluation:	<u>Examinations</u>	<u>Value</u>
	Exam1	250 points
	Exam2	250 points
	Class Presentation	300 points
	Class participation	100 points

Course outline

-Exam 1 and 2 will be in-class exam (75 min max)

-All students are required to have one class presentation (specific topic will be given by instructor). In each student presentation session, the rest of the students in class will also read the journal, participate the presentation by ask questions (or involved in discussion) and submit the peer evaluation.

Final Grade: A=850 & up, A- =800-845, B+=750-799, B=700-749, C+=650-699, C=600-649, D=550-599, E=500 or below

Course Schedules:

1wk	8/21/12	W	Introduction of the class: Lipoprotein 101
2wk	8/26/12	M	No Class
	8/28/12	W	No Class
3wk	9/2/12	M	Labor day
	9/4/12	W	No Class
4wk	9/9/12	M	No Class
	9/11/12	W	Cholesterol intestinal absorption and excretion
5wk	9/16/12	M	Cholesterol de novo synthesis of Cholesterol (SREBPs)
	9/18/12	W	Receptor mediated LDL clearance (LDLr)
6wk	9/23/12	M	Reverse cholesterol transport and HDL (ABCA1, ABCG1)
	9/25/12	W	Nuclear hormone receptors in lipid metabolism (LXR)
7wk	9/30/12	M	Bile acid and hepatic lipid metabolism (FXR)
	10/2/12	W	Pathogenesis of atherosclerosis
8wk	10/7/12	M	Regression of atherosclerosis
	10/9/12	W	Nutritional regulation of atherosclerosis (*)
9wk	10/14/12	M	MicroRNA33 and cardiovascular diseases (*)
	10/16/12	W	Mid-term exam
10wk	10/21/12	M	Obesity epidemics/ Heterogeneity of adipose tissue
	10/23/12	W	Adipocyte and adipogenesis / Lipogenesis / lipolysis
11wk	10/28/12	M	Adipocyte as endocrine organ (Adiponectin/ Leptin)
	10/30/12	W	Obesity and inflammation/ adipose macrophage
12wk	11/4/12	M	Obesity and Insulin resistance
	11/6/12	W	Role of brain in Food intake (*)
13wk	11/11/12	M	Veterans Day
	11/13/12	W	Sugar toxicity and fatty liver diseases (*)
14wk	11/18/12	M	Brown adipogenesis (*)
	11/20/12	W	Circadian clock and obesity (*)
15wk	11/25/12	M	Obesity and microbiota (*)
	11/27/12	W	Thanks giving holiday
16wk	12/2/13	M	Final exam

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 commitment may result in disciplinary action up to and expulsion from the University.” Furthermore, on work submitted for the 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 professor.

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

Students with Disabilities Act:

The Dean of Student 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

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.

Policy on Class Attendance: Attendance and punctuality are required and expected as this is a graduate level course at a major research intensive institution.

Policy on Make-up Exams or Class Presentations: Students are expected to take exams when they are scheduled. Absences from exams are dealt with on an individual basis.