BIOC 470 - Introduction to Lipids and Lipoproteins (3 credits) (Winter) (Prerequisite: BIOC 311 or equivalent). (Open to U3). Structure, function and metabolism of lipids and lipoproteins as they relate to lipid storage diseases, obesity, insulin resistance, diabetes, heart disease, Alzheimers disease and other neurological diseases. Transcriptional and post-translational mechanisms governing the synthesis and degradation of important enzymes, lipids, and lipid transport molecules; role of lipid mediators in signaling pathways and protein modification; assembly and dynamics of lipoproteins and biological membranes; genetic disruptions of lipid regulatory proteins such as cell surface receptors leading to human disease.

Discussants:
Dr. Robert Scott Kiss (Coordinator), Block E, Glen site, EM1.2220
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Prerequisite: BIOC311 or equivalent
Lectures: Tuesdays and Thursdays from 10:35am – 11:55am
First Class: January 8, 2019
Location: MCMED 1345

Grading:
Midterm examination: 40%
Final examination: 50%
Participation: 10%

Textbook:
Biochemistry of Lipids, Lipoproteins and Membranes (Fifth Edition; Eds. Vance and Vance). The textbook is a resource and is not required reading. The textbook will be provided to the students.

Syllabus – Winter 2019

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March 4 to March 8 – Reading Week
Marking Scheme:
Midterm exam (**Thursday, February 14, 2019, in class**) 40% of total mark
(covers material up to and including Tuesday, February 7, 2019)
Final exam (during regular exam period – 3 hours) **50% of total mark**
(covers only second half material, February 12 – April 11).

*If you miss writing the midterm exam, you MUST BRING a doctors’ note to the main office, room 905, McIntyre Building within 1 WEEK of the exam date. In this case, a make up midterm will be scheduled within the 2 weeks. If a legitimate doctor’s note is not provided, you will receive a zero on the midterm and the final exam will be worth 50%.*

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