

CHEM 3812: Biochemistry – Membranes and Metabolism

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Office Hours: By appointment.

Text: Biochemistry, Fifth Edition, Berg, Tymoczko, and Stryer, W. H. Freeman and Company, 2002.

Course Content

Topics	Chapter
Carbohydrates	11
Lipids/Cell Membranes	12
Membrane Channels and Pumps	13
Basic Concepts of Metabolism	14
Glycolysis	16
The Citric Acid Cycle	17
Oxidative Phosphorylation	18
Photosynthesis	19
Signal Transduction	15
Sensory Systems	32
Molecular Motors	34

Quizzes: Two in-class quizzes, each worth 35 points

Quiz 1: Friday, January 16, 2004

Quiz 2: Friday, February 13, 2004

Modules: Four 30 point computational and spectroscopy problem sets.

Hour Exams: Three hour exams, each worth 120 points

Exam I: Friday, January 30, 2004

Exam II: February 27, 2004

Exam III (final exam): March 12, 2004

Total Points = 2(quizzes) + 4(modules) + 3(Exams)
= 2(35) + 4(30) + 3(120)
= 550 points

Holiday: Martin Luther King Day January 19, 2004