

Metabolism Lecture (CHEM 4140)
Section 1
Course Syllabus Spring 2008
Dr. David E. Wolfgang

Class Meetings: MWF 8:00 – 8:50 AM
Room 36-115

Office Hours: Monday 9:00 – 12:00
Wednesday 9:00 – 11:00
Thursday 9:30 – 10:30

Or by appointment

Office Information: Location: Old NCF Room 301 J
Telephone: 520 – 7378
E-mail: dwolfgan@xula.edu

Course Objective: Students will be expected to learn key metabolic pathways, for example glycolysis and the citric acid cycle. Students will be expected to understand how metabolic pathways are controlled and regulated. Catalytic mechanism of certain important reactions will also be discussed. I also expect students to be able to take what they know about pathways and understand what disease consequences occur when there is a breakdown in the pathway.

Primary Text: Fundamentals of Biochemistry by Voet, Voet, and Pratt, 2nd edition.

Grading: There will be 5 unannounced quizzes (10 points each)
There will be 3 in-class exams (100 points each)
Quizzes and exams will be both multiple choice and short answer/calculation.
Short paper about a metabolic disease: 30 points.
There will be a 20 point Final Exam on April 28th covering information since the last exam and the metabolic disease about which you wrote your paper.

A = 360 – 400

B = 320 – 359

C = 280 – 319

D = 240 – 279

F = 0 – 239

In accordance with University Policy, anyone caught cheating will receive a failing grade for the course.

The topics covered will be:

Chapter 13	Introduction to Metabolism
Chapter 14	Glucose Catabolism
Chapter 15	Glycogen Metabolism and Gluconeogenesis
Chapter 16	Citric Acid Cycle
Chapter 17	Electron transport and Oxidative Phosphorylation
Chapter 19	Lipid Metabolism
Chapter 20	Amino Acid Metabolism
Chapter 21	Mammalian Fuel Metabolism: Integration and Regulation

Exams:

Feb. 13 (Chapters 13 and 14)

Mar. 14 (Chapters 15 and 16)

Apr. 21 (Chapters 17, 19, and 20 + major points from chapters 13 – 16)

The exams will be on these dates. If we have not completed the chapters by the time of the exam you will be responsible only for the sections of the chapter covered in class. If we cover more material you will be responsible for what was covered prior to the exam. If you have a conflict with one of these dates, you need to let me know **BEFORE** the exam.

In the event of an evacuation:

Take your text book and notes with you.

We will remain connected via blackboard.

Instruction will continue.

Assignments and notes will be posted.