

Advanced Biochemistry

Prerequisites:

CHEM 321

Lecture:

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CHEM 321

Required Textbook:

Lehninger Principles of Biochemistry, 5th Edition, David L. Nelson, Michael M. Cox, W. H. Freeman & Co., 2008

Course Description:

This course will discuss the coordinating biochemistry component

Course Goals:

- Develop an overview of the biochemical basis of biosynthesis and underlying regulation of enzymes and receptors.

Learning Outcomes

1. Understand the biochemical basis of amino acid metabolism

Instructional Methods:

The teaching method employed

### Grading/Evaluation

Exams: There will be 4 term exams (100 points each) and a final exam.

Participation: Class participation in the form of discussion will be included in the final grade.

The overall grade will be based upon a total of 400 points.

The overall

Exam I	100 Points
Exam II	100 Points
Exam III	100 Points
Exam IV	100 Points

Final Grade: The overall grade will be based upon a total of 400 points.

### Course Policies

Attendance

Exams

Coursework will be

Participation

Class participation will be included in the final grade.

### Ethical Considerations: The Chemist's Oath

Plagiarism

Plagiarism is defined as the use of "other" intellectual property without

Support Services

Support services will be provided

1	Chapter 1	Introduction
2	Chapter 2	Chemical Equilibrium
3	Chapter 3	Thermodynamics
4	Chapter 4	Electrochemistry
5	Chapter 5	Chemical Kinetics
6	Chapter 6	Equilibrium and Kinetics
7	Chapter 7	Acid-Base Equilibria
8	Chapter 8	Solubility Equilibria
9	Chapter 9	Complex Ion Equilibria
10	Chapter 10	Radioactivity
11	Chapter 11	Organic Chemistry
12	Chapter 12	Organic Chemistry
13	Chapter 13	Organic Chemistry
14	Chapter 14	Organic Chemistry
15	Chapter 15	Organic Chemistry
16	Chapter 16	Organic Chemistry
17	Chapter 17	Starvation
18	Chapter 17	Dehydration
19	Chapter 18	Metabolic Cycles
20	Chapter 18	Protein Metabolism
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