

Advanced Biochemistry

Prerequisites: CHEM 321

Lectures

Lectures

Lectures on Tuesdays following classes. However, available on Wednesdays.

Lecture:

Prerequisites:

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 of metabolism and its pathways. Topics

Course Goals:

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

Learning Outcomes

1. Understand the biosynthetic relationships of amino acids, lipids, and nucleic acids.
2. Compare the thermodynamic systems of amino acids, lipids, and nucleic acids.

Instructional Methods:

The teaching methods employed in this course will consist of lectures by the instructor.

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 or extra credit.

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

The overall

Exam 1: 100 Points

Exam 2: 100 Points

Exam 3: 100 Points

Exam 4: 100 Points

Final Exam: 100 Points

Course Policies

Attendance

Exams

Coursework will be

Participation

Class Participation will

Ethical Considerations: The Chemist's Code of Ethics

Chemists are defined as the use of "other" information in many ways. This includes the use of information to

Support Services

Support services will be available

Health Services

Emergency Services

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