

Course Information & Policies
CHEM [REDACTED] 6501
Biochemistry I - Spring [REDACTED]

Time: Tuesdays and Thursdays 9:35 am – 10:55 am
Location: Room 17, College of Computing (aka Chem Annex)

Course website:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Office Hours: Tuesdays and Thursdays 11:00 am
Office hours will be conducted in the Chem Annex immediately after class, or by appointment.

Background Information:

This course offers an introduction to the chemistry, biochemistry, and three-dimensional structures of proteins, nucleic acids, carbohydrates, lipids, and other biomolecules. Reading assignments and suggested problems will enhance a student's ability to remain abreast of the material being discussed in class and to apply the concepts toward various types of biological and biotechnological situations. Students should have an understanding of the functional groups of organic and biochemical compounds, and the fundamental reaction mechanisms common in organic chemistry. Students should be able to draw a reaction mechanism using double-headed curved arrows to demonstrate the flow of electrons. Any student who feels s/he is falling behind or needs additional assistance, should immediately speak with the Professor or the TA and should attend office hours.

Grading:

3 Midterm Exams: (300 pts; 100 pts each)
8 Quizzes: (100 pts total) Lowest score dropped.
1 Final Exam: (200 pts) The final will be comprehensive.
Homework: (40 points total, one dropped)

There will be a curve for the final grade based upon the overall class average, but the following are guaranteed minimums for cutoffs:

>90% = A
>80% = B
>70% = C
>60% = D

Final Exam: May 5 (Thu) 8:00am - 10:50am in 17 CoC.

TA: Michael Rood: (E-mail: mrood3@gatech.edu)
Office Hours, Wed, 3-4pm. Room 3427-3432 IBB. Come to the lab door labeled 3427-3432 out side wing 3D on the 3rd floor to find him.

Required Text: "Fundamentals of Biochemistry", 3rd Edition, Donald Voet, Judith G. Voet, and Charlotte Pratt. Purchase of the online homework is not necessary. The student study guide will be very useful. It is recommended that you have access to an Organic Chemistry and a General Chemistry textbook.

Missed Exams: There is no scheduled makeup exam. Planned absences for exam dates that coincide with an Institute Approved Activity *must* be cleared with Prof. Williams *no later* than *three weeks prior* to the date of the exam. In addition to the verbal request, the approval must be registered in an email message to Dr. Williams. See www.deanofstudents.gatech.edu for information on Institute Approved Activities.

Molecular Visualization: It is highly recommended, although not required, that each student download the molecular visualization program Pymol (pymol.org/edu). The student version is free. LDW will be making Pymol scripts available during the semester for structural analysis. Coordinates and scripts will be posted. Set your pc/mac so that file.pdb and file.pml launch Pymol.

Calculators: You are responsible for ensuring that you have an appropriate calculator for the exams. *Only* simple calculators are permitted during exams – i.e. *no* programmable or graphing functions are permitted.

Re-grade requests: Requests must be made in writing and handed to Prof. Williams in person. In addition, an email message reiterating the request must be sent to Prof. Williams. Requests are not to be made to a TA. The re-grade request must be turned in no later than the Friday of the week in which the exam is returned (by 5 pm).

***E-mail rules:** E-mail can only be accepted from Georgia Tech accounts. When sending an e-mail, put the following information in the subject line: CHEM 4511, firstname lastname, subject.

Example: CHEM 4512, Marie Curie, request for meeting on May 13

Please compose e-mail in a professional manner, with proper salutations & complete sentences.

Laptops and Cell Phones: As a courtesy to everyone involved, use of these items is not permitted during class. Turn these items off prior to the start of each session.

Honor Code: Students should refer to the Georgia Institute of Technology's academic honor code: www.honor.gatech.edu, which they are required to uphold.