

CHEM 4841K
Biochemistry I
Summer 2009 4 credit hours

Lecture: MTWR 11:15 AM-12:55 PM
Rogers Rm. 307

Lab : Tuesday 1:05-5:35 and
Thursday 1:05-5:35
Rogers Rm. 317

Instructor: Dr. Holly E. Carpenter Desai
Office: Rogers Rm. 318
Office Hours: MTWR 10:00-11:00 AM, or by appointment
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Textbook: Biochemistry, by Voet and Voet, 3rd edition

Course Objectives: We will be covering the chemistry of biological molecules during the two semesters of this course. The first semester will focus primarily on the structure and function of biological molecules while the second semester will predominantly focus on metabolism. No biochemistry course can avoid the mechanics of the metabolic pathways. In this course (Biochem I), however, I intend to partially shift the traditional focus from intensive memorization of the individual components to a more general appreciation of the connectivity and co-regulation of biosystems. You will be expected to understand the logic inherent in metabolic flux, and be able to predict and understand the effects of drugs and disease in the pathways covered. Throughout the course, I will introduce recent topical research, as applicable, to help you appreciate the processes by which scientific research creates the knowledge that you can access in your textbooks and on the internet. I will then take a more in depth look at protein function and enzyme activity. The lab portion of the course will reinforce the lectures and will provide a background in the techniques used for biochemical separations and analysis.

Course Requirements: Organic Chemistry I and II are pre-requisites for this class. If you have not taken organic chemistry, drop the class. In fact, if you did not do well in organic, you may want to reconsider this class. This is an upper level chemistry course, and I expect that the students signed up for this class have strong chemistry and math backgrounds. If you do not feel that your chemistry and math skills are at the level of a junior or senior chemistry major please drop the class. I will not spend class time reviewing basic concepts. I also recommend taking Biology 1107 and 1108 (or equivalent courses) before taking this class.

Grading: Your grade will be based on exams and laboratory reports. I use a ten point grading scale (90-100% is an A, 80-89% is a B, etc.).

Exams	5	x	100 pts	500 pts
Quizzes	5	x	10 pts	50 pts
Final Exam	1	x	100 pts	100 pts
Homework	4	x	25	100 pts
Class Participation				10 pts
Lab Reports				240 pts *
			Total =	1000 pts

So....If you want an A you will need to accumulate 90% of 1000 pts, or 900 pts.

Quizzes: Quizzes will be given at the beginning of the class period. Quiz 5 will be a pop quiz that may be given at any unannounced time during the semester.

*Your lab schedule will contain a more specific description of how these 240 points are allocated.

Exams: You are allowed to use graphing calculators during exams. Pens, pencils, erasers, and calculators are the only things you are allowed to use during an exam. If you require extra paper, please request it from me. Students will not be allowed to begin exams late if ANY student has turned in their exam and left the room. You may not leave the room during the exam period, go to the bathroom ahead of time. Any deviation from these instructions will result in you receiving a zero on the exam. Exam problems which are sloppy and/or illegible will not be graded and will not receive credit or be re-graded. Please see the section below for information about cheating.

Attendance: There will be an attendance sheet circulated at the beginning of class. It is your responsibility to sign it. If I catch anyone signing for another person you will be given an F in the course and you will be reported to the academic integrity committee. Students accumulating more than 6 absences will be dropped from the class with either a W or a WF. You are responsible for the material covered whether you are in class or not. You are also responsible for the material in the chapters listed in this syllabus, whether I explicitly cover it in class or not. Make-up exams are not something I enjoy. All makeup exams MUST be scheduled to be taken BEFORE the normal exam period. Make-up exams will be given AFTER the exam period ONLY if you have valid documentation for a valid reason. This would typically mean paperwork from the doctor at the emergency room. I must have documentation before I will allow you to take the make-up exam. No make-up exams will be given after a week from the original exam date. When you signed up for this course you made a commitment to be able to come to class during the scheduled class periods. This includes the final exam period. DO NOT come to me and ask to take the final at an alternate time because you have work/a doctor's appointment/a family get together/a sports event. Look at the final schedule now, if you have a problem with the time the final is being offered you may need to drop the course.

Behavior: I expect the students in this class to treat each other with respect. If your behavior is disruptive to the class in any way you will be asked to leave. If this becomes a serious problem you will be removed from the class and I will allow the discipline committee the opportunity to deal with you. You are expected to behave in an adult manner and respectfully not only towards myself, but also towards other faculty, and our teaching assistants.

Cheating: Cheating of any sort will be strictly enforced. If I catch you cheating I will give you a zero on the assignment, possibly fail you and report you to the academic integrity council. EVERY student at this school is expected to abide by the academic integrity code. There is a copy attached to this syllabus. I expect that you have read and understand it. I will be using anti-plagiarism technology in this class.

Schedule: Exam 1 : June 29
 Exam 2 : July 6
 Exam 3 : July 13
 Exam 4 : July 20
 Exam 5 : July 27
 Comprehensive Final Exam : Friday, July 31, 11:20-1:20

This schedule is tentative, and if we need to move an exam, or make adjustments to what we are covering we can. Yet another reason to come to class!

Class evaluations: Class evaluations at NGCSU are now conducted on-line through Banner. Evaluation of the class is considered a component of the course and students will not be permitted to access their course grade until the evaluation has been completed. The evaluations will be accessible beginning one week prior to Final Exam week. Specific instructions will be made available when the surveys are activated.

Disabilities and Accommodations: North Georgia College and State University is committed to equal access to its programs, services and activities for people with disabilities. If you believe that you have a disability requiring an accommodation, reasonable prior notice needs to be given to the instructor and the Office of Student Disability Resources. In this case, contact Elizabeth McIntosh, Coordinator, Student Disability Resources at 122 Barnes Hall, 867-2782, emcintosh@ngcsu.edu

Your Copy

Academic Integrity Code

North Georgia College and State University is dedicated to providing an educational climate characterized by integrity. Academic integrity, in particular, must be the cornerstone of an institution of higher learning and must pervade all segments of the University community. Furthermore, academic integrity is the mutual responsibility of the various constituencies (students, faculty, staff, and administration) which comprise the University.

Academic Integrity Defined

The following regulations define the concept of academic integrity and should be useful in determining standards and attitudes appropriate for optimal intellectual functioning.

1. No student shall receive or give assistance not authorized by the instructor in the preparation of any essay, laboratory report, examination, or other assignment included in an academic course.
2. No student shall take or attempt to take, or otherwise procure in an unauthorized manner, any material pertaining to the conduct of a class, including but not limited to tests, examinations, laboratory equipment, and roll book.
3. No student shall sell, give, lend, or otherwise furnish to any unauthorized person material which can be shown to contain the questions or answers to any examinations scheduled to be given at any subsequent date in any course of study offered by the university, without authorization from the instructor.
4. No student shall plagiarize. Themes, essays, term papers, tests, and other similar requirements must be the work of the student submitting them. When direct quotations are used, they must be so indicated and when ideas of another are incorporated in the paper, they must be appropriately acknowledged.
5. No student shall resubmit her/his graded material from other courses or from previous assignments for a current assignment without permission of the instructor.
6. No student shall sign class rolls for another student.

Integrity Code

The integrity code, on my honor, "I will not lie, cheat, steal, plagiarize, evade the truth or tolerate those that do," symbolizes NGCSU's commitment to academic integrity.