

**CHEMISTRY 4551**  
**Fall 2011**

**Dr. Donna Hobbs**

C-3002 Science Hall

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**Office Hours:**

MWF: 10:00 a.m. – 11:00 a.m.

T: 1:00 p.m. – 2:00 p.m.

Th: 11:00 a.m. – noon

**Prerequisites:** Chemistry 3412 and a semester of calculus, C or better in each

**Required Materials:** Lehninger Principles of Biochemistry, 5<sup>th</sup> edition, by Nelson and Cox; scientific, nonprogrammable calculator; solutions manual is optional

**Course Content:** Chapters 1-11. We will examine the physical chemistry, structure, and function of biological molecules, including proteins, carbohydrates, lipids, and nucleic acids.

**Grading:** Your grade in this course will be based on four hour exams, assignments, and a cumulative final exam. Point value on the exams may vary. Your overall grade for the semester depends on the % of the total points you earn. An 'A' requires at least 90%, a 'B' requires 80-89%, etc.

Exams: 50%

Assignments: 20%

Final Exam: 30%

**Final Exam: Wednesday, December 7<sup>th</sup>, 1:00 to 4:00 p.m.**

**Attendance:** You are expected to attend lecture regularly. If you miss a session, it is your responsibility to find out what material was covered and whether any announcements were made. Absence from 5 lectures is considered cause for a student to be dropped from this course. This instructor will withdraw a student only AFTER midterm, with the accompanying WF grade. There will be NO MAKE-UP EXAMS without a doctor's excuse. An unexcused absence from the final will result in a course grade of 'WF', regardless of course performance.

**Other Policies:** If an error was made in grading an exam, the student has one week after the exam was returned to the class to request a reevaluation. It is the student's responsibility to pick up the exam if not present when the exam is returned. Cell phones and pagers will not be tolerated in class or in exams.

## TENTATIVE SCHEDULE

<b>Week</b>	<b>Lecture</b>
8/15	Chapter 1 and Chapter 13, Section 1- Thermodynamics
8/22	Chapter 2- Intermolecular Forces, Acids, Bases, and Buffers
8/29	Finish Chapter 2, begin Chapter 3-Amino Acids, Peptides and Proteins
9/5	Labor Day Holiday
<b>9/9</b>	<b>Exam 1</b>
9/12	Chapter 3 and Chapter 4- Protein Structure
9/19	Chapter 4
9/26	Chapter 5 (Section 5.1)- Myoglobin and Hemoglobin
10/3	Chapter 6- Enzyme Kinetics and Mechanisms
<b>10/7</b>	<b>Exam 2</b>
<b>10/10**</b>	Chapter 6
10/17	Chapter 7-Carbohydrates
10/24	Chapter 8- Nucleic Acids
10/31	Begin Ch. 10- Lipids
<b>11/4</b>	<b>Exam 3</b>
11/7	Chapter 10
11/14	Chapter 11-Membranes and Transport
<b>11/21</b>	<b>Exam 4</b>
<b>11/24</b>	<b>Thanksgiving Holiday</b>
11/28	Chapter 9- DNA technology
<b>12/7</b>	<b>Final Exam</b> <b>1:00 p.m. -4:00 p.m.</b>

**\*\*Note: 10/10 is midterm. This is the last day you may withdraw from this class without a grade of WF. The student must initiate withdrawals before midterm. I will only withdraw after midterm, with the accompanying WF grade.**