CHEMISTRY 120 Dennison

Spring 2016

CLASS SCHEDULE: Tu/Th – 10:00-11:40 PM

CLASS LOCATION: Science 415
INSTRUCTOR: Dr. Kelly Dennison
OFFICE LOCATION: Pierce 105
OFFICE HOURS:

Mon/Wed	**4:30 – 5:30**
Tue/Thu	**12:00 – 1:00**
Fri	**5:30 – 6:00**

Other times: Open door policy. If I'm in my office, feel free to talk with me.

CONTACT INFORMATION: **Email**: Kelly.joy.dennison@emory.edu

TEXTBOOK: General, Organic, and Biological Chemistry, Structures of Life, Karen C. Timberlake, 5th Ed.

1. Oxford College and Liberal Arts. Oxford College is dedicated to a liberal arts education, and science, including chemistry, is an integral part of the liberal arts. In this course, you will have an opportunity to master these liberal arts skills:

- Reasoning:

1. Problem-Solving
2. Critical Thinking
3. Logic
4. Calculation/Computation
5. Investigation
6. Analysis of data

- Language

1. Listening and interpreting
2. Reading
3. Writing

- Aesthetics

1. Observing
2. Seeing relationships among form, pattern, harmony, and shape

- Imagination

1. Prediction
2. Developing scientific insight (hypotheses)

2. Learning Goals. The primary learning goals for this class are for you to:

- Utilize critical thought and reasoning to understand chemical behavior at the microscopic and macroscopic levels.

- From your knowledge of chemistry and chemical systems, be able to develop solutions to problems which you have not encountered before.
- Understand the role of chemistry in everyday life.

CLASS MATERIALS (REQUIRED):

1. General, Organic, and Biological Chemistry, Structures of Life, Karen C. Timberlake, 5th Ed.
2. Mastering Chemistry
3. Nonprogrammable scientific calculator (must be brought to every class). Students will not be allowed to borrow calculators from their classmates during class assignments, quizzes, or exams. The use of cell phones and PDAs will not be allowed.
4. Separate notebook for lab, preferably composition-style.
5. Safety glasses.

COURSE COMPONENTS:

ATTENDANCE

Students are expected to attend each class period. You are allowed 3 absences in lecture and NO absences in lab. Each absence exceeding 3 absences will result in a corresponding point deduction from your final course grade (eg. 4 absences= 1 pt, 5 absences= 2 pts etc). There are no excused absences. Students are responsible for all material covered in the lecture even if they were absent. You must bring both a calculator and the textbook to every class. Failure to do so will count as an absence for that day.

ASSIGNMENTS

Students are expected to complete all assignments regardless of whether or not they will be graded. Students are expected to work all in-chapter and the recommended end of chapter problems in their textbook. Any quizzes or homework assigned on Blackboard or in class will have due dates/deadlines. Once a quiz or assignment has been closed, it will not be reopened.

EXAMINATIONS

The best 3 out of 4 exams are scheduled during the regular class period. **NO MAKE-UP EXAMINATIONS WILL BE GIVEN!!!!** Excuses including the reason for missing an exam must be presented **before** the scheduled exam- this may be done by email or sending a note to class. If the excuse is accepted, the grade obtained on the final exam will count in place of the missed exam. If your excuse is not accepted you will receive a zero for that exam. You may only be excused from missing 1 exam.

Anticipated Exam Schedule:

Part 1	**Exam 1**	**Tuesday, Feb 9**
Part 2	**Exam 2**	**Thursday, Mar 3**
Part 3	**Exam 3**	**Thursday, Mar 31**
Part 4	**Exam 4**	**Thursday, Apr 4**

Exam dates are subject to change. The sections to be covered in each exam will be announced in class.

Course Chapters

Part 1	Selected Sections: 1.1, 2.1, 2.4, 2.6, 2.7, 3.2 , 3.3, 4.6, 4.7. 6.6, 6.7, 6.8, 6.9, 7.4, 7.5, 9.4, 9.5, 9.6, 11.1, 11.2, 11.3, 11.6, 11.8, 11.9 Chapter 12: Hydrocarbons Chapter 13: Alcohols, Phenols, Thiols, and Ethers
Part 2	Chapter 14: Aldehydes, Ketones, and Chiral Molecules Chapter 15: Carbohydrates Chapter 16: Carboxylic Acids and Esters
Part 3	Chapter 17: Lipids Chapter 18: Amines and Amides Chapter 19: Amino Acids and Proteins
Part 4	Chapter 20: Enzymes and Vitamins Chapter 21: Nucleic Acids and Protein Synthesis Chapters 22, 23, 24 Various sections on metabolism may be included if time permits

Final Exam – will be given during the scheduled final exam period.

The final examination is mandatory and will be written paper and presentation.

GRADING:
Your course grade will be computed as follows:

Exams (Best 3)	40%
Paper/Presentation	20%
Quizzes/HW	20%
Laboratory	20%
Total	100%

Laboratory will begin the second week of class.

GRADING SCALE

A = 93 – 100 A- = 90 – 92 B+ = 87 – 89 B = 83 – 86 B- = 80 – 82 C+ = 77 – 79
C = 73 - 76 C- = 70 - 72 D+ = 67 - 69 D = 60 – 66 F = below 60 F

Note: You must have a passing grade in both lecture and lab to pass the course. If you fail either the lecture or the lab you will receive an "F" in the course.

HONOR CODE

It is expected that students will adhere to the Honor Code. It is expected that students will not cheat, contribute to or condone the cheating of others. You are therefore expected to submit your own best effort on all assignments. Exams will not be proctored unless it is believed that the Honor Code is being violated. Pens/pencils and a non-programmable calculator are the only tools you are allowed to bring to and use in exams (no cell phones). Unless otherwise specified, collaboration is not allowed in any assignment to be submitted – including laboratory reports. You may collect data in groups however you may not collaborate with other students when completing lab report sheets/formal summaries.

BlACKBOARD

Students are also expected to check the class Blackboard regularly. Additional course materials will be posted on Blackboard.

"Student work submitted as part of this course may be reviewed by Oxford College and Emory College faculty and staff for the purposes of improving instruction and enhancing Emory education."