

Instructor: Professor Gregory B. Dudley

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Webpage: <http://www.chem.fsu.edu/dudley/index.html>

Office Hours: MONDAY 9:00 am – 10:00 am
THURSDAY 4:00 pm – 5:00 pm
FRIDAY 2:30 pm – 3:30 pm

Required materials:

- *Fundamentals of General, Organic, and Biological Chemistry*, McMurry et al, 6th Edition
- Sapling Learning on-line homework account

Optional materials:

- Molecular Visions (or other) plastic model kit

Recitation Instructors

- Mr. Kyle Manning <kmanning@chem.fsu.edu>
- Mr. Stefan Bresch <sbresch@chem.fsu.edu>
- Ms. Rana Mohamed <rmohamed@chem.fsu.edu>

Thursday Recitation Schedule:

| Section | Time | Room | Recitation Instructor | Office hour (DLC help room) |
|---------|----------------|---------|-----------------------|-----------------------------|
| 1 | 9:00–9:50 am | 213 HTL | Kyle | Monday |
| 2 | 10:00–10:50 am | 213 HTL | Kyle | 1:30–2:30 pm |
| 3 | 11:00–11:50 am | 213 HTL | Stefan | Friday |
| 4 | 12:00–12:50pm | 213 HTL | Stefan | 12:30–1:30 pm |
| 5 | 1:00–1:50 pm | 213 HTL | Rana | Wednesday |
| 6 | 2:00–2:50 pm | 213 HTL | Rana | 1:30–2:30 pm |

Prerequisite: CHM 1032 *or* CHM 1045, 1045L, 1046, and 1046L.

Course Description/Objectives

This course is intended for students in nutrition and fitness and other allied health majors and those who seek an overview of organic chemistry. It covers the organic chemistry chapters of the textbook (12–17) in detail, with a focus on structure and properties of organic compounds and an introduction to functional groups and reactions. Other topics will be covered briefly. Specific objectives for each chapter are available in the textbook.

Study Hints:

Take an active role, not a passive one, in learning new material! Prepare for lecture by browsing the text ahead of time, so that you know before you arrive what will be covered. Read the book *after* lecture. A large portion of the course involves solving problems. Practice by working as many of the end-of-chapter problems as you can.

Genius without education is like silver in the mine. — Ben Franklin

Course Schedule:

| Week | Day | Lecture topic | Week | Day | Lecture topic |
|---------|-------------|--|----------|-------------|---|
| 1. 1/02 | M W F | Introduction Ch. 12: Alkanes | 9. 2/27 | M W F | Review and catch-up Test Two (Ch. 12–13, 14–15) Test two wrap-up |
| 2. 1/09 | M W F | Ch. 12 Ch. 12 Ch. 12 | 10. 3/05 | M W F | HAPPY SPRING BREAK |
| 3. 1/16 | M W F | MLK DAY Ch. 13: Alkenes, etc Ch. 13 | 11. 3/12 | M W F | Ch. 16: Ketones, etc Ch. 16 Ch. 16 |
| 4. 1/23 | M W F | Ch. 13 Ch. 13 Ch. 13 | 12. 3/19 | M W F | Ch. 16 Ch. 17: Carboxylic acids, etc Ch. 17 |
| 5. 1/30 | M W F | Review and catch-up Test One (Ch. 1–10, 12–13) Test one wrap-up | 13. 3/26 | M W F | Ch. 17 Ch. 17 Ch. 17 |
| 6. 2/06 | M W F | Ch. 14: O/S/X Compounds Ch. 14 Ch. 14 | 14. 4/02 | M W F | Review and catch-up Test Three (Ch. 12–15, 16–17) Test three wrap-up |
| 7. 2/13 | M W F | Ch. 14 Ch. 15: Amines Ch. 15 | 15. 4/09 | M W F | Special Topic: Chirality Special Topic Special Topic |
| 8. 2/20 | M W F | Ch. 15 Ch. 15 Ch. 15 | 16. 4/16 | M W F | Review and catch-up Review for final Review for final |

Grading:

The course grade will be calculated on the basis of 700 points, distributed as follows:

| | |
|--|------------|
| Three Hour Exams (no make-up exams), 100 points each: | 300 points |
| Cumulative Final Exam, 200 points: | 200 points |
| Sapling Learning Online HW points (20 points each, 150 max) | 150 points |
| Recitation Quiz points (5 points each, 50 max) | 50 points |

Total 700 points

Exams:

There will be three Hour Exams and a Final Exam. Note their scheduled dates now and plan your calendar accordingly. There **will be no make-up tests**; the final exam will be prorated to cover any excused absences on test days.

| | | |
|--------------------|--|-------------------|
| Hour Test 1 | Wednesday, February 1 | 100 points |
| Hour Test 2 | Wednesday, February 29 | 100 points |
| Hour Test 3 | Wednesday, April 4 | 100 points |
| Final Exam | MONDAY, April 23, 10:00 am – 12:00 pm | 200 points |

Recitation Quizzes:

A quiz will be given in recitation each week (except exam weeks), with ample time allowed to complete the quiz. Each quiz is worth 5 points, up to a max of 50 points for the semester. There are no make-up quizzes; *you must attend recitation to take the quiz.*

End-of-chapter problems:

You are encouraged to work as many problems at the end of the chapter as you are able. *Some of these problems will appear on quizzes, tests, and the final exam!*

On-line homework (Sapling Learning):

Graded homework exercises with instant answer feedback will be assigned. You should familiarize yourself with this system and use it to reinforce your learning. At the end of the semester all of the on-line homework scores will be compiled and graded on a 150-point scale for inclusion in your final grade.

Homework assignments will be due on *the first class day* after we finish discussing each chapter. There is one assignment for each chapter. The maximum score for any assignment is 20, so the maximum score for the term is 150.

| | | |
|------------------------|-------------------------------|------------------|
| HW Introduction | Wednesday, January 18 | 10 points |
| HW Chapter 12 | Wednesday, January 18 | 20 points |
| HW Chapter 13 | Monday, January 30 | 20 points |
| HW Chapter 14 | Wednesday, February 14 | 20 points |
| HW Chapter 15 | Monday, February 27 | 20 points |
| HW Chapter 16 | Wednesday, March 21 | 20 points |
| HW Chapter 17 | Monday, April 2 | 20 points |
| HW Stereochem. | Monday, April 16 | 20 points |

To get set up for the on-line homework, following these instructions:

1. Go to <http://saplinglearning.com>
2. If you already have a Sapling Learning account, log in, click "View Available Courses", then skip to step 6.
3. Otherwise, click "Sign up for new account" located under the Login box.
4. Choose a new username and password, and supply the other requested information. Click "Create my new account".
5. Check your email (and spam filter) for a message from Sapling Learning and click on the link provided in that email.
6. Find your course in the list (listed by school, course, and instructor) and click the link.
7. Click the button that says "Send payment via Paypal or Credit Card" and follow the remaining instructions.
8. Once you have registered and enrolled, you can log in at any time to complete or review your homework assignments.
9. During sign up — and throughout the term — if you have any technical problems or grading issues, send an email to support@saplinglearning.com explaining the issue. We are almost always more able (and faster) to resolve issues than your instructor.

Work through the training assignment right away. Completing it is worth ten free points, and it will teach you how to use the system.

The homework assignments for each chapter should be performed at the same time as we are covering the material in class. You will not be permitted to go back and complete assignments after the due date. The online problems: 1) allow pretty much any question that is asked on paper to be performed on a computer; 2) enable one to draw their own structures, just as one will need to do on an exam; 3) grade instantly and provide feedback via tutor-like hints, allowing one to keep working with a question to arrive at the correct answer; 4) include detailed answer explanations.

Tentative Grading Scale:

| Grade | Percentage | Grade | Percentage | Grade | Percentage |
|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| A | 90-100 | B- | 77-79.9 | D+ | 62-64.9 |
| A- | 87-89.9 | C+ | 73-76.9 | D | 60-61.9 |
| B+ | 83-86.9 | C | 70-72.9 | D- | 57-59.9 |
| B | 80-82.9 | C- | 65-69.9 | F | 0-56.9 |

(I may choose to lower the cut-off scores, but I will not raise them.)

University Attendance Policy:

Excused absences include documented illness, deaths in the family and other documented crises, call to active military duty or jury duty, religious holy days, and official University activities. These absences will be accommodated in a way that does not arbitrarily penalize students who have a valid excuse. Consideration will also be given to students whose dependent children experience serious illness.

Academic Honor Policy:

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to ". . . be honest and truthful and . . . [to] strive for personal and institutional integrity at Florida State University." (Florida State University Academic Honor Policy, found at <http://dof.fsu.edu/honorpolicy.htm>.)

Americans with Disabilities Act:

Students with disabilities needing academic accommodation should:

- (1) register with and provide documentation to the Student Disability Resource Center; and
- (2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.

This syllabus and other class materials are available in alternative format upon request.

For more information about services available to FSU students with disabilities, contact the:

Student Disability Resource Center
874 Traditions Way
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu
<http://www.disabilitycenter.fsu.edu/>

Liberal Studies Area V Statement (for CHM 1020, CHM 1020L, CHM 1032, CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, CHM 1050, CHM 1050L, CHM 1051, CHM 1051L, CHM 2200, CHM 2200L):

The Liberal Studies Program at Florida State University has been designed to provide a perspective on the qualities, accomplishments, and aspirations of human beings, the past and present civilizations we have created, and the natural and technological world we inhabit. This course has been approved as meeting the requirements for **Liberal Studies Area V, Natural Science**, and in combination with your other Liberal Studies courses, provides an important foundation for your lifelong quest for knowledge.

Free Tutoring from FSU:

On-campus tutoring and writing assistance is available for many courses at Florida State University. For more information, visit the Academic Center for Excellence (ACE) Tutoring Services' comprehensive list of on-campus tutoring options – see <http://ace.fsu.edu/tutoring> or contact tutor@fsu.edu. High-quality tutoring is available by appointment and on a walk-in basis. These services are offered by tutors trained to encourage the highest level of individual academic success while upholding personal academic integrity.

Syllabus Change Policy:

"Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice."