

**CHM 2211 – Organic Chemistry 2, section 0769 (3 credit hours)
Spring 2012: MWF 3rd (9:35-10:25 am), Flint 50**

Instructor: Dr. Tammy A. Davidson
Office Hours: M 7th, W 4th & 7th, Friday 4th
(or other times by appointment)

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Course Description and Prerequisites: This is the second course in the two-semester organic chemistry sequence. The course will continue to expose the student to the fundamental concepts of organic chemistry, including the chemistry of organometallic compounds, ketones, aldehydes, carboxylic acids and their derivatives, enolates, aromatic compounds, amines, and organic synthesis. Students must have completed the first semester of organic chemistry (CHM 2210), or the equivalent, with a grade of C (2.0) or higher.

Text: Required: Brown, Foote, Iverson, and Anslyn, "Organic Chemistry, 6th Edition," Cengage (2012)

Recommended: Brown, Foote, Iverson, and Anslyn, "Student Study Guide and Solutions Manual for Organic Chemistry, 6th Edition," Cengage (2012)

Sakai Site: <http://ss.at.ufl.edu>. Login with Gatorlink ID and password. This site will be updated regularly with announcements, lecture notes, practice materials, exam scores, and other information.

OWL (Optional): <http://owl.cengage.com/>. Setup OWL account with access code, then find our course in the listings. Note: Use of OWL site is for practice only and will have NO IMPACT on your grade.

Progress Exams: Three progress exams will be given in class on the following dates during the semester:

Progress Exam 1 – Monday, February 6
Progress Exam 2 – Wednesday, February 29
Progress Exam 3 – Wednesday, April 4

Exams will be given only at the scheduled times. There will be no makeup exams given in this course. Students who miss an exam due to extreme, unusual circumstances (serious illness requiring doctor's attention, death in the family, etc.) may request that their final exam score be used to replace the missed progress exam. This option is only available **if I am notified within 24 hours of missing the exam and if proper documentation (doctor's excuse, funeral program, etc.) is provided**. Please note that inadequate preparation because of other academic or extracurricular obligations is not considered to be a viable excuse for special consideration.

Final Exam: The final exam for this course is scheduled in exam group 3A, on Thursday, May 3rd from 7:30-9:30 AM in the regular classroom. The final will be cumulative and will cover material from throughout the semester.

Grading Information: Every student has a bad day from time to time. Therefore, this course is designed to allow you to make some mistakes along the way without your grade plummeting. Before final grade are calculated, your average of the three progress exams will be used to substitute for your lowest progress exam score. Please note that any exam that is not attempted will be recorded as a grade of zero. This being said, you should take each exam seriously, and do your best. Grades are calculated based on three progress exam scores, worth 100 points each, plus the final exam, also worth 100 points, for a total of 400 points available in this course.

Final Grade Assignments: The grading scale will be set as follows: A \geq 90.0%, A- = 87.0-89.9%, B+ = 84.0-86.9%, B = 77.0-83.9%, B- = 73.0-76.9%, C+ = 70.0-72.9%, C = 63.0-69.9%, C- = 60.0-62.9%, D+ = 57.0-59.9%, D = 50.0-56.9%, E < 50.0%. There will not be a curve beyond that already included within the grading scale. UF policies for assigning grade points can be found on the Registrar's webpage.

Attendance: Although attendance will not be taken, you will find it to your advantage to attend class on a regular basis. You will find that it is much easier to keep up with the course if you are attending the lecture.

Re-Grades: To ensure academic honesty and accuracy in grading, all exam answer sheets will be photocopied after grading and prior to being returned to students. All re-grade requests must be submitted in writing to Dr. Davidson in Sisler 429 and must have a cover sheet (available on the Sakai site) that details your concerns. **Note:** The entire exam will be re-graded to ensure accuracy, and your score may go up or down with the re-grade. All re-grade requests must be made within three days from the date that the exam is returned in class.

Plan for Success: You already know that organic chemistry is a challenging course, and you must have done fairly well in CHM 2210 or you wouldn't be in this class. Go ahead and congratulate yourself – you deserve it – but then let's talk reality for a few minutes. No time for sugar coating here – you need to take a hard look in the mirror and be honest with yourself. How did you earn your grade in CHM 2210? What were your scores really like? Did you stay strong and steady until the end? If so, that is great! Or were you the more typical student where the first exam was your "buffer" that kept the downhill slide manageable? This is really important, because you can't fake it for second semester organic. The typical "cram and dump" study strategy just doesn't work – you probably started to figure this out at the end of organic 1. This course is cumulative by nature, which means everything from first semester will creep back in when you least expect it.

So what is the secret? Actually, there is nothing secret about it. You'll need to be ready to work hard – review the old stuff from first semester – and develop a good study plan. At the very least, do something for this class every day (OK, maybe you can skip one day a week), maybe an hour or so. Ideally, you should read a little before class, you should go over your notes as soon as possible after class to fill in missing information, and every day you should work problems. Lots and lots of problems. In chapter problems, end of chapter problems, OWL problems, problems you make up for each other. Do as many as you can – really do them – and come ask for help when you are confused. This book has great practice problems and you should use them to your advantage. Answers and explanations for the problems can be found in the Student Study Guide and Solutions Manual. Additional help with the problems can be obtained during office hours and in the CLC in Flint Hall.

TA Office Hours: In addition to my own office hours, teaching assistants will be available in the Organic Chemistry Learning Center in Flint 258 from approximately 8:30am-4:00pm Monday through

Friday. The final schedule will be posted on the Sakai site. Please take advantage of these office hours – we're here to help you learn as much as you can.

Course Schedule: The course will cover Spectroscopy and chapters 15 through 24, with roughly three to four lecture days per chapter. The following schedule will be followed as closely as possible.

Dates	Chapter	Topics
January 9, 11, and 13	Ch. 12 and 13	Spectroscopy – portions of Chapters 12 and 13
January 16	No classes	Martin Luther King, Jr. Day
January 18 and 20	Ch. 15	Introduction to Organometallic Compounds
January 23, 25, 27, 30, February 1 and 3	Ch. 16	Aldehydes and Ketones
February 6	Exam 1	Spectroscopy and Chapters 15 and 16
February 8 and 10	Ch. 17	Carboxylic Acids
February 13, 15, and 17	Ch. 18	Functional Derivatives of Carboxylic Acids
February 20, 22, 24, and 27	Ch. 19	Enolate Anions and Enamines
February 29	Exam 2	Chapters 17, 18, and 19
March 2	Ch. 20	Dienes, Conjugated Systems, and Pericyclic Reactions
March 5, 7, and 9	Spring Break – no classes	
March 12, 14, and 16	Ch. 20	Dienes, Conjugated Systems, and Pericyclic Reactions, continued
March 19, 21, and 23	Ch. 21	Benzene and the Concept of Aromaticity
March 26, 28, 30, and April 2	Ch. 22	Reactions of Benzene and Its Derivatives
April 4	Exam 3	Chapters 20 (and Diels-Alder), 21, and 22
April 6, 9, 11, 13, and 16	Ch. 23	Amines
April 18	Ch. 24 (parts)	Catalytic Carbon-Carbon Bond Formation
April 20, 23, and 25	various	Synthesis and Review
May 3	Final Exam – Group 3A, 7:30-9:30 am	

Honor Code: The following statement taken from the University of Florida Honor Code applies to all work in this course: *“We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”*

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied:

“On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

Special Needs: Any student with a special need for an accommodation in test-taking or note-taking should register with the Dean of Students Office. That office will provide the student with documentation for presentation to the instructor. Anyone anticipating the need for special accommodation should speak with the instructor early in the semester.

Good Luck!!