

CHM 4230/5235
ORGANIC SPECTROSCOPY
FALL 2010

- Instructor:** Lisa McElwee-White, Sisler 429, 392-8768, lmwhite@chem.ufl.edu
- TA** Joseph Brannaka, jbrannaka@ufl.edu
- e-Learning site:** <https://lss.at.ufl.edu/> (used for announcements, exam scores and information, practice material, handouts, and lecture notes from class). From this page, click on the Sakai entry button and then use your Gatorlink ID to log in.
- Text:** *Organic Structure Analysis, 2nd Ed.* (Crews, Rodriguez and Jaspars)
- Books on Reserve** see <https://ares.uflib.ufl.edu/> for a list of the books available for two-hour check-out at the Marston Science Library. Note: the ARES listings are under CHM 5235.
- Prerequisites:** One year of organic chemistry (CHM 2210/2211) is necessary.
- Lecture:** MW 12:50 - 1:40 pm in LEI 207
- Problem Session:** F 12:50 - 1:40 pm in LEI 207
The problem session is required for CHM 5235 students and participation will be graded. CHM 4230 students are highly encouraged to attend the problem session.
- Note:** There are more Fridays than there are problem sessions. There will be lectures on the Fridays that are not used for problems.
- Office Hours:** (LMW) MW 3:00 - 4:00; F 10:00-11:00 in Sisler 429 (my office)
(JB) M 9:00 – 11:00 in Sisler 429 (the outer office)
- Exams:** Exams consist of an in class portion (both CHM 4230 and CHM 5235) and a take home supplement (CHM 5235 only). Exam dates are Sept. 29, Oct. 27 and Dec. 10. The take home supplements will be due at the beginning of the next class period.
- Problem sets:** Problem sets will be posted on e-Learning roughly a week before the associated problem session. For CHM 4230, problem sets are due at the end of the associated problem session and can be turned in either in class or in my office.

Grading:

CHM 5235		CHM 4230	
Exam 1	25%	Exam 1	25%
Exam 2	25%	Exam 2	30%
Exam 3	30%	Exam 3	35%
Problem Session*	20%	Problem Sets**	10%

*CHM 5235 problem sets are not collected but participation in the problem session is graded.

**CHM 4230 problem sets are collected (grading on problem sets is pass/fail) but participation in the problem sessions is not required. Attendance at the problem sessions is, however, strongly encouraged.

Minus Grades:

Used if appropriate. UF policy requires the following URL be listed: <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

Student Honor Code:

(see the UF Student Guide (<http://www.dso.ufl.edu/studentguide/>) for details): *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."*

Course Topics:

- I. Strategy for Compound Identification
- II. Nuclear Magnetic Resonance (^1H , ^{13}C , other nuclei, 1D and 2D experiments)
- III. Infrared Spectroscopy
- IV. Mass Spectrometry
- V. Ultraviolet Spectroscopy
- VI. Electron Paramagnetic Resonance