CHM 4230/5235
ORGANIC SPECTROSCOPY
FALL 2016

Instructor: Lisa McElwee-White, Sisler 429, 392-8768, lmwhite@chem.ufl.edu

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e-Learning site: http://elearning.ufl.edu/ (used for announcements, exam scores and
information, practice material, handouts, and lecture notes from class). From this page, click on the Canvas login 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. There is also a link to Ares on the course e-Learning site.

Prerequisites: One year of organic chemistry (CHM 2210/2211) is necessary.

Lecture: MW 12:50 - 1:40 pm in LEI 207

Problem Session: F 1:55 - 2:45 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
(XS) T 9:00 – 11:00; R 9:30 – 10:30 in Flint 258
(JH) MW 11:45 – 12:45 in Sisler 429

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. 28, Oct. 26 and Dec. 7. The take home supplements for Exams 1 and 2 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:

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<th>CHM 5235</th>
<th>CHM 4230</th>
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<tr>
<td>Exam 1 25%</td>
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<td>Exam 3 30%</td>
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<td>Problem Session* 20%</td>
<td>Problem Sets** 10%</td>
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*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](http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html)

Student Honor Code:

(see the UF Student Guide [http://www.dso.ufl.edu/studentguide/](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 (\(^1\)H, \(^13\)C, other nuclei, 1D and 2D experiments)
III. Infrared Spectroscopy
IV. Mass Spectrometry