## Chem 552: Spectroscopic Identification of Organic Compounds TuTh 10:00-11:15A ISB 321

Textbook: Organic Structure Analysis

Crews, Rodriguez, Jaspars

Grading: 60% Three Exams

25% Homework and quizzes15% Participation and attendanceGrade breakdown, with some leeway:

A = 90+, B = 80-89, C = 70-79, D = 60-69, F = 0 - 59Graduate and undergraduate students are on same scale.

<u>Exams</u>: 3 Exams, all material covered previously is fair game.

These are given during class time.

10/9 Exam 1 11/6 Exam 2 12/4 Exam 3

HW and Qs: There will be some number of assigned homework sets and guizzes assigned on

an as needed basis and announced in class or on Moodle. Be sure you attend class or make a good friend in the class. Quizzes will be in the form of takehome problems, in-class quizzes, or online quizzes. Be sure to be in class on

time to assure you do not miss an unannounced quiz.

Office hours: Rather than have hard and fast times each week, I prefer that students make an

appointment via email. <a href="mailto:chambers@chem.umass.edu">chambers@chem.umass.edu</a> I am absolutely more than

happy to meet with any of you about class or other advice you desire.

Absence: If you are absent from an exam or quiz, it is your responsibility to present to me

an approved excuse form within 2 days. Simply put, if you miss class, the onus

is on you to explain it.

Schedule: Here is a rough schedule of topics:

September Intro, publishing requirements, nature of matter, analog to digital, instrumentation

Elemental analysis NMR (1H NMR)

IR

October UV/vis

Mass spec (singly charged small molecules to some peptides/proteins)

November NMR (1H NMR advanced, 13C NMR)

December NMR (more advanced)

Some advice: This class will be challenging. Some material will be easy for you, some will be

brand new. I encourage all students to use this course to augment their

undergraduate or graduate research endeavors. I welcome real-world questions from your lab and hope that you will apply the information you learn in 552 to

your own research efforts.