

**Chem 266 – Spring 2013**  
**Organic Chemistry**  
(MWF – 9:05-9:55 am ISB 221)

Instructor: Nathan Schnarr (LGRT 613)

schnarr@chem.umass.edu

Required Text: Organic Chemistry by L.G. Wade, Jr. (7<sup>th</sup> or 8<sup>th</sup> edition)

Office Hours: To be announced

Topics:

- I) Brief Review of Chem 265
- II) Infrared Spectroscopy and Mass Spectrometry
- III) Nuclear Magnetic Resonance Spectroscopy
- IV) Ultraviolet Spectroscopy
- V) Reactions of Aromatic Compounds
- VI) Ketones and Aldehydes
- VII) Amines
- VIII) Carboxylic Acids
- IX) Carboxylic Acid Derivatives
- X) Condensation and Alpha Substitutions of Carbonyl Compounds
- XI) Advanced Molecular Orbital Theory
- XII) Tools for Determining Reaction Mechanisms
- XIII) Arrow-Pushing (Organic Reaction Mechanisms)
- XIV) Modern Bioorganic Polymer Chemistry

Grading:

Exam 1: Wednesday, February 13	(7-9pm)	20%
Exam 2: Wednesday, March 13	(7-9pm)	20%
Exam 3: Wednesday, April 17	(7-9pm)	20%
Exam 4: TBA (During Finals Week)	(TBA)	20%
Quizzes/Homework		15%
Participation		5%