**Department of Chemistry Syllabus**

This syllabi is advisory only. For details on a particular instructor's syllabus (including books), consult the instructor's course page. For a list of what courses are being taught each quarter, refer to the Courses page. *Every instructor has prerogative to teach the course as they see fit and ultimately the instructor's syllabus supersedes all others.*

***CHE 128B: Organic Chemistry***

Approved:

Suggested Textbook: (actual textbook varies by instructor; check your instructor)

Required: Brown, Foote, Iverson and Anslyn Organic Chemistry, Sixth Ed. Recommended: Iverson and Iverson, Student Study Guide and Solutions Manual for Brown, Foote, Iverson and Anslyn's Organic Chemistry, Sixth Ed.; Organic chemistry molecular model kit.

Suggested Schedule:

1 Alcohol and thiol chemistry (Read: Ch. 10)

2 Ether, sulfide and epoxide chemistry (Read: Ch. 11)

3 Organic spectroscopy

 Infrared Spectroscopy (Read: Ch. 12)

 NMR Spectroscopy (Read: Ch. 13)

 Mass Spectrometry (Read: Ch. 14)

4 Carbonyl group chemistry

 Aldehydes and ketones (Read: Ch. 16)

 Carboxylic acids and their derivatives (Read: Ch. 17 and 18, ignoring section 18.9C)

 Enolates and enamines (Read: Ch. 19, ignoring section 19.8E)

5 Synthesis

Additional Notes:

Prerequisite: course 128A or consent of instructor, course 129A strongly recommended; chemistry majors should enroll in course 129B concurrently

Learning Goals:

Chemistry 128B covers chapters 10-14 and 16-19 in the textbook. A solid understanding of the material in Chemistry 128A is assumed. The course material is organized into the following "learning objective units," with the relevant chapter reading assignments provided.