

## CHEM 128B

### Organic Chemistry – QA Fall

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**LECTURES:** See QA Nottingham schedule

**INSTRUCTOR OFFICE HOURS:** To be announced

**TEXTBOOKS: Required:** Brown, Foote, Iverson and Anslyn *Organic Chemistry*, Sixth or Seventh 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.

**EVALUATION:** Three 100-point exams distributed evenly throughout the course.

**LEARNING OBJECTIVES:** Chemistry 128B covers chapters 10-19 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:

- 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 **Introduction to Organometallic Compounds**
- 5 **Carbonyl group chemistry**
  - Aldehydes and ketones** (*Read:* Ch. 16)
  - Carboxylic acids and their derivatives** (*Read:* Ch. 17 and 18)
  - Enolates and enamines** (*Read:* Ch. 19)
- 6 **Synthesis**