

Instructor: Dr. Brian J. Esselman

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Office hours: Mon. 4:35 - 5:40 PM, Tues. 6:45 - 8:15 PM, and Thurs. 2:25 - 3:15 PM My office hours are combined CHEM 343/344/345.

Note: Piazza is an online resource being used this semester to answer content questions in as efficient a manner as possible. Please feel free to utilize this resource in addition to going to office hours.

Required:

Organic Chemistry 5th or 6th edition by Marc Loudon

Recommended:

Solution Manual Organic Chemistry 5th or 6th edition

(Additional solutions not in the Solution Manual are posted on Learn@UW)

Molecular Model Kit

Several model kits are available online, at the UW Bookstore, and from AXΣ in the Mills Street Atrium of the Chemistry Building. It is not important which model kit you acquire, none of them are perfect and all are helpful. (I like one of the more expensive one simply for the nice snap/pop sound it makes when in use.)

ChemDraw ([ChemDraw 15 Download Instructions](#))

As a UW student, you get ChemDraw free! This is pretty awesome! I highly recommend downloading the software and using it whenever you are sending an email question to a classmate, myself, or a TA. It is the same software that we use to draw all of the molecules for your problem sets, quizzes, and exams.

Course Schedule – Chemistry 345 Lecture Spring 2016

Monday	Wednesday	Friday	Friday's Discussion
	Jan 20 Chapter 12 IR Spectroscopy and Mass Spectrometry	Jan 22 Chapter 12 IR Spectroscopy and Mass Spectrometry	Problem Set 12
Jan 25 Chapter 13 NMR Spectroscopy	Jan 27 Chapter 13 NMR Spectroscopy	Jan 29 * Chapter 13 NMR Spectroscopy	Problem Set 13
Feb 1 Chapter 12-15 Spectroscopy and Aromaticity	Feb 3 Chapter 16 Chemistry of Benzene and Its Derivatives	Feb 5 Chapter 16 Chemistry of Benzene and Its Derivatives	Problem Set 16 & Exam Review 1 Quiz 1 (12, 13, & 16)
Feb 8 Chapter 16 Chemistry of Benzene and Its Derivatives	Feb 10 Chapter 16 Chemistry of Benzene and Its Derivatives	Feb 12 Chapter 17 Allylic and Benzylic Reactivity	Problem Set 16 & Exam Review 1
Feb 15 Exam Review 1 (12, 13, 15, & 16) Exam 1 5:45-7:15 pm Monday, Feb 15th	Feb 17 Chapter 17 Allylic and Benzylic Reactivity	Feb 19 Chapter 18 Chemistry of Aryl Halides, Vinylic Halides and Phenols	Problem Set 17
Feb 22 Chapter 18 Chemistry of Aryl Halides, Vinylic Halides and Phenols	Feb 24 Chapter 19 Chemistry of Aldehydes and Ketones	Feb 26 Chapter 19 Chemistry of Aldehydes and Ketones	Problem Set 18 Quiz 2 (17 – 18)
Feb 29 Chapter 19 Chemistry of Aldehydes and Ketones	Mar 2 Chapter 19 Chemistry of Aldehydes and Ketones	Mar 4 Chapter 20 Chemistry of Carboxylic Acids	Problem Sets 19, 20 & Exam Review 2
Mar 7 Chapter 20 Chemistry of Carboxylic Acids	Mar 9 Exam Review 2 (17 – 20) Exam 2 5:45-7:15 pm Wednesday, Mar 9th	Mar 11 Chapter 21 Chemistry of Carboxylic Acid Derivatives	Problem Set 21

Mar 14 Chapter 21 Chemistry of Carboxylic Acid Derivatives	Mar 16 Chapter 21 Chemistry of Carboxylic Acid Derivatives	Mar 18† Chapter 22 Chemistry of Enolates, Enols, and α,β - Unsaturated Carbonyl Compounds	Problem Set 21 Problem Set 22
Mar 21 Spring Break	Mar 23 Spring Break	Mar 25 Spring Break	Spring Break
Mar 28 Chapter 22 Chemistry of Enolates, Enols, and α,β - Unsaturated Carbonyl Compounds	Mar 30 Chapter 22 Chemistry of Enolates, Enols, and α,β - Unsaturated Carbonyl Compounds	Apr 1 Chapter 22 Chemistry of Enolates, Enols, and α,β - Unsaturated Carbonyl Compounds	Problem Set 22 Quiz 3 (21 – 22)
Apr 4 Chapter 22/Chapter 23 Chemistry of Amines	Apr 6 Chapter 23 Chemistry of Amines	Apr 8 Chapter 23 Chemistry of Amines	Problem Set 23
Apr 11 Chapter 23 Chemistry of Amines	Apr 13 Chapter 25 Aromatic Heterocycles	Apr 15 Chapter 25 Aromatic Heterocycles	Problem Set 25 & Exam Review 3
Apr 18 Exam Review 3 (21 – 23, 25) Exam 3 5:45-7:15 pm Monday, Apr 18th	Apr 20 Chapter 28 Pericyclic Reactions	Apr 22 Chapter 28 Pericyclic Reactions	Problem Set 28
Apr 25 Chapter 28 Pericyclic Reactions	Apr 27 Chapter 28 Pericyclic Reactions	Apr 29 Chapter 24 -26 Carbohydrates	Problem Set 24 Quiz 4 (28)
May 2 Chapter 26 - 27 Peptides	May 4 Special Topic Organic Astrochemistry	May 6 Final Exam Review	Problem Set 24 & Exam Review 4
May 9 Final Exam (12, 13, 15 – 28) 5:05-7:05 pm Sunday, May 8th	May 11	May 13	

* Last day to drop or add courses without penalty/permission. †Last day to drop courses.