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.

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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 $AX\Sigma$ 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.

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Course Schedule – Chemistry 345 Lecture Spring 2016

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

Mar 14	Mar 16	Mar 18†	
Chapter 21	Chapter 21	Chapter 22	Problem Set 21
Chemistry of Carboxylic Acid Derivatives	Chemistry of Carboxylic Acid Derivatives	Chemistry of Enolates,	Problem Set 22
Acid Derivatives	Acid Derivatives	Enols, and α , β - Unsaturated Carbonyl	
		Compounds	
		Compounds	
Mar 21	Mar 23	Mar 25	
Spring Break	Spring Break	Spring Break	Spring Break
Mar 28	Mar 30	Apr 1	
Chapter 22	Chapter 22	Chapter 22	Problem Set 22
Chemistry of Enolates,	Chemistry of Enolates,	Chemistry of Enolates,	Quiz 3 (21 – 22)
Enols, and α , β -	Enols, and α , β -	Enols, and $lpha$, eta -	
Unsaturated Carbonyl	Unsaturated Carbonyl	Unsaturated Carbonyl	
Compounds	Compounds	Compounds	
Apr 4	Apr 6	Apr 8	
Chapter 22/Chapter 23	Chapter 23	Chapter 23	Problem Set 23
Chemistry of Amines	Chemistry of Amines	Chemistry of Amines	
Apr 11	Apr 13	Apr 15	
Chapter 23	Chapter 25	Chapter 25	Problem Set 25 & Exam
Chemistry of Amines	Aromatic Heterocycles	Aromatic Heterocycles	Review 3
Apr 18	Apr 20	Apr 22	
Exam Review 3	Chapter 28	Chapter 28	Problem Set 28
(21 - 23, 25)	Pericyclic Reactions	Pericyclic Reactions	
Exam 3 5:45-7:15 pm			
Monday, Apr 18 th			
Apr 25	Apr 27	Apr 29	Problem Set 24
Chapter 28	Chapter 28	Chapter 24 -26	Quiz 4 (28)
Pericyclic Reactions	Pericyclic Reactions	Carbohydrates	
May 2	May 4	May 6	
Chapter 26 - 27	Special Topic	Final Exam Review	Problem Set 24 & Exam
Peptides	Organic Astrochemistry		Review 4
Mari O	May: 44	May: 42	
May 9 Final Exam	May 11	May 13	
(12, 13, 15 – 28)			
5:05-7:05 pm			
Sunday, May 8 th			
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^{*} Last day to drop or add courses without penaly/permission. †Last day to drop courses.