

# Syllabus for Chemistry 315 - Fall 2016

Instructor: Prof. Daniel Seidel

WL Auditorium; Monday/Wednesday 1:40 – 3:00 pm  
Office hours: Monday 3:30 – 5:30 pm (room 159)

**Textbook:** Clayden, Greeves, & Warren: Organic Chemistry 2e

09-07-16	Lecture 1	Chapter 1	<i>(Introduction to Organic Chemistry)</i>
09-12-16	Lecture 2	Chapter 2	<i>(Structures of Organic Molecules)</i>
09-14-16	Lecture 3	Chapter 3	<i>(Determining Organic Structures)</i>
09-19-16	Lecture 4	Chapter 3	<i>(Determining Organic Structures)</i>
09-21-16	Lecture 5	Chapter 4	<i>(Molecular Structure and Bonding)</i>
09-26-16	Lecture 6	Chapter 4	<i>(Molecular Structure and Bonding)</i>
09-28-16	Lecture 7	Chapter 5	<i>(Organic Reactions and Mechanisms, Introduction)</i>
10-03-16	<b>Exam 1</b> (will cover lectures 1–7)		
10-05-16	Lecture 8	Chapter 6	<i>(Nucleophilic Addition to the Carbonyl Group)</i>
10-10-16	Lecture 9	Chapter 7	<i>(Delocalization and conjugation)</i>
10-12-16	Lecture 10	Chapter 7	<i>(Delocalization and conjugation)</i>
10-17-16	Lecture 11	Chapter 8	<i>(Acidity, Basicity and <math>pK_a</math>)</i>
10-19-16	Lecture 12	Chapter 9	<i>(Organometallic Reagents in C–C Bond Formation)</i>
10-24-16	Lecture 13	Chapter 10	<i>(Nucleophilic Substitution at the Carbonyl Group)</i>
10-26-16	Lecture 14	Chapter 10	<i>(Nucleophilic Substitution at the Carbonyl Group)</i>
10-31-16	Lecture 15	Chapter 11	<i>(Reactions at C=O with Loss of the Carbonyl Oxygen)</i>
11-02-16	Lecture 16	Chapter 12	<i>(Equilibria, Rates, and Mechanisms)</i>
11-07-16	<b>Exam 2</b> (will cover lectures 8–16)		
11-09-16	Lecture 17	Chapter 13	<i>(Proton NMR)</i>
11-14-16	Lecture 18	Chapter 13	<i>(Proton NMR)</i>
11-16-16	Lecture 19	Chapter 14	<i>(Stereochemistry)</i>
11-21-16	Lecture 20	Chapter 15	<i>(Nucleophilic Substitution at Saturated Carbon)</i>
11-23-16	<i>Thanksgiving Break</i>		
11-28-16	Lecture 21	Chapter 15	<i>(Nucleophilic Substitution at Saturated Carbon)</i>
11-30-16	Lecture 22	Chapter 15	<i>(Nucleophilic Substitution at Saturated Carbon)</i>
12-05-16	Lecture 23	Chapter 16	<i>(Conformational Analysis)</i>
12-07-16	Lecture 24	Chapter 16	<i>(Conformational Analysis)</i>
12-12-16	<b>Exam 3</b> (will cover lectures 17–24)		
12-14-16	Final Review		
TBD	<b>Final Exam</b> (will cover all lectures)	12:00 – 3:00 pm (location TBD)	