

## CHEM 224 (ORGO II) COURSE OUTLINE, FALL 2017

---

Instructor: Philip Hamann  
email: philip.hamann@hunter.cuny.edu  
phone: (212)-772-5331  
office: HN 1321A

Instructor: Shengping Zheng  
email: szh0007@hunter.cuny.edu  
phone: (212)-396-6322  
office: 1305a HN

---

### **Lecture times and location:**

### **Office Hours:**

Please use your Hunter email for all correspondence including setting up appointments.

**NOTE:** You must check your Black Board-linked email regularly for schedule changes, class cancelations due to emergencies, and other important announcements.

**Brief course description:** Reactions of organic molecules. Synthesis, stereochemistry, spectroscopy, and reaction mechanisms. Chemistry of biomolecules.

**Pre-requisites:** Chem 222 or equivalent, with a C or better. (C students must be extra diligent to survive.)

**Text/Homework:** *Organic Chemistry* by David Klein, 2nd edition, John Wiley & Sons. Each of the instructors will let you know how homework from the textbook and other sources will be handled.

**General Information:** Chem 224 is the second of the two-semester Organic Chemistry course sequence. Knowledge of material from Chem 222 is assumed and is foundational for Chem 224. Chapters 13 - 14 and 16 – 25 will be covered for the course. Doctor Hamann will be the instructor for the first half of the course and Professor Zheng will be the instructor for the second half (see course schedule).

**Recitations:** There are separate recitations for this class which will be devoted to problem solving and review of the lecture material. Attendance in recitation is **mandatory**. Recitations are held at 2:10 – 3:00 PM on Mondays and Thursdays in HN1403. The examinations will partly include recitation material.

**Grading/Exams:** The total score for the course is 500 pts constituted as follows:

- Four (4) hourly exams (100 points each for a total of 400 points).
- Homework totaling 50 points.
- Recitation grade of 50 points (attendance and participation being emphasized)

**All exams are mandatory:** If you miss an hourly exam, you must present verifiable proof of the reason for missing the exam. Otherwise, there will be **NO** make-up exam.

**Projected grade lines:** A, B, C grades are further divided into +/- subgrades. The actual grade line may be adjusted slightly higher or lower depending on the difficulty of exams.

- A: 85% (total 425 pts) or above
- B: 70-85 % (total 350-425 pts)
- C: 60-70 % (total 300-350 pts)
- D: 50-60% (total 250-300 pts)
- F: below 50% (below 250 pts)

### **Exam dates:**

- Hour exam 1: Monday, September 25 (Chapters 13, 14, 16)
- Hour exam 2: Monday, October 23 (Chapters 17-19)
- Hour exam 3: Thursday, November 16 (Chapters 20-22)
- Hour exam 4: Monday, December 11 (Chapters 23-25)

**Policy on Incomplete grade:** Incomplete (IN) grade may be given if a student has a reasonable chance of passing the course but cannot complete it because of a valid reason. In order to be considered for the IN grade, students need to present verifiable proof. Course work for an IN must be completed by the end of the following semester.

**Policy on CR/NC grade:** The CR/NC request must be brought to the final exam, and will not be accepted once exam starts.

See the Hunter College Catalog or visit <http://md2.hunter.cuny.edu/webgrade/regmemo.jsp> for the complete Hunter College grading policy on CR/NC, INC, WU etc.

**Suggestions for Studying Organic Chemistry:** It is important that you prepare for each lecture by reading ahead. Practice as many problems as possible to become familiar with the concepts introduced in class. The questions throughout the chapter, at the end of each chapter, and the online homework problems are excellent for this purpose. Make use of the many other resources available on the world wide web.

1. Read the material in the book **before** the lecture. Knowing what to expect and what is in the book, you can take fewer notes and spend more time listening and understanding the lecture. You should reread the chapter for understanding after each chapter is completed
2. After the lecture, review you notes and the book, and do the in-chapter problems. Also, read the material for the next lecture.
3. If you are confused about something, visit your instructor during office hours immediately, before you fall behind. Bring your attempted solutions to problems with you to show your instructor where you are having trouble.
4. To study for the exam, begin by reviewing each chapter and your notes, then concentrate on the end-of-chapter problems
5. Studying for the exams starts the very first day of class; cramming for Orgo will never give you your best grade.
6. **DO NOT get behind. Catching up is extremely difficult.**

---

### Hunter College required statements for syllabi

1. **Academic Integrity Statement:** "Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures."
2. **ADA Statement:** "In compliance with the ADA and with Section 504 of the Rehabilitation Act, Hunter College is committed to ensuring educational access and accommodations for all its registered students. Hunter College's students with disabilities and medical conditions are encouraged to register with the Office of AccessABILITY for assistance and accommodation. For information and appointment contact the Office of AccessABILITY located in Room E1214 or call (212) 772-4857 /or VRS (646) 755-3129."
3. **Hunter College Policy on Sexual Misconduct** "In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.
  - a. **Sexual Violence:** Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444).

- b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct Link: <http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-with-links.pdf>

---

## Tentative Course Schedule

	Date	Topic	Professor
1	Mon, Aug 28	Chap 16 <b>BRIEF COURSE INTRO; NMR</b>	DR HAMANN
2	Thurs, Aug 31		
-	Mon, Sept 4	No Class (Labor Day)	-
3	Thurs, Sept 7	Chap 13 <b>ALCOHOLS AND PHENOLS</b>	DR HAMANN
4	Mon, Sept 11		
5	Thurs, Sept 14	Chap 14 <b>ETHERS AND EPOXIDES</b>	DR HAMANN
6	Mon, Sept 18		
7	Tues, Sept 19	Chap 17 <b>CONJUGATED SYSTEMS day 1</b>	DR HAMANN
-	Thurs, Sept 21	No Class	-
8	<b>Mon, Sept 25</b>	<b>EXAM 1 (CHAPTERS 13, 14, 16)</b>	<b>DR HAMANN</b>
9	Thurs, Sept 28	Chap 17 <b>CONJUGATED SYSTEMS cont.</b>	DR HAMANN
10	Mon, Oct 2	Chap 18 <b>AROMATIC COMPOUNDS</b>	DR HAMANN
11	Thurs, Oct 5		
-	Mon, Oct 9	No Class (Columbus Day)	-
12	Thurs, Oct 12	Chap 19 <b>AROMATIC SUBSTITUTIONS</b>	DR HAMANN
13	Mon, Oct 16		
14	Thurs, Oct 19	Chap 20 <b>ALDEHYDES AND KETONES day 1</b>	PROF ZHENG
15	<b>Mon, Oct 23</b>	<b>EXAM 2 (CHAPTERS 17-19)</b>	<b>DR HAMANN</b>
16	Thurs, Oct 26	Chap 20 <b>ALDEHYDES AND KETONES cont.</b>	PROF ZHENG
17	Mon, Oct 30	Chap 21 <b>CARBOXYLIC ACIDS</b>	PROF ZHENG
18	Thurs, Nov 2		
19	Mon, Nov 6	Chap 22 <b>REACTIONS AT ALPHA CARBON</b>	PROF ZHENG
20	Thurs, Nov 9		
21	Mon, Nov 13	Chap 23 <b>AMINES day 1</b>	PROF ZHENG
22	<b>Thurs, Nov 16</b>	<b>EXAM 3 (CHAPTERS 20 - 22)</b>	<b>PROF ZHENG</b>
23	Mon, Nov 20	Chap 23 <b>AMINES cont.</b>	PROF ZHENG
-	Thurs, Nov 23	No Class - Thanksgiving	-
24	Mon, Nov 27	Chap 24 <b>CARBOHYDRATES</b>	PROF ZHENG
25	Thurs, Nov 30	Chap 24 <b>CARBOHYDRATES</b>	PROF ZHENG
26	Mon, Dec 4	Chap 25 <b>AMINO ACIDS AND PROTEINS</b>	PROF ZHENG
27	Thurs, Dec 7	Chap 25 <b>AMINO ACIDS AND PROTEINS</b>	PROF ZHENG
28	<b>Mon, Dec 11</b>	<b>EXAM 4 (CHAPTERS 23-25)</b>	<b>PROF ZHENG</b>
		<b>No Comprehensive Final Exam</b>	