

Organic Chemistry III

Course Ref. No. 60478
MWF 9:00 - 10:05 am
Hoffmann Hall

Professor Carl C. Wamser
Office: Science Bldg 1, Room 327A
Office Hours: every day 10:30 - 11:30 am

Textbook (required): *Organic Chemistry*, 5th ed., by Francis A. Carey, including the Study Guide & Solutions Manual. Optional materials in the PSU Bookstore include two different kinds of molecular model kits.

Online Resources: Most of the elements of this course will be accessible through the home page at <http://chem.pdx.edu/~wamserc/C336S04/>. In addition, some aspects of the course will use WebCT (also accessible from the course home page). Internet connections are available from the Chemistry Commons (SB1-221), from numerous PSU computer labs, or from home if you have an internet connection. The Chemistry Commons is staffed with chemistry graduate students who serve as tutors.

E-Mail: We will use our WebCT Discussion area like open office hours and for general student-to-student communications. I can also be reached through my personal e-mail address (wamserc@pdx.edu).

Class Schedule: During the spring term, we will cover Chapters 17-28 from the text, following the schedule on the back. You should read the chapter in the text before it is covered in lecture. There will be homework assignments for each chapter but they will not be collected. By doing the homework in advance, you will be prepared for the in-class exercises, quizzes, and exams.

Quizzes: For each chapter, there will be **two** quizzes. Chapters 23/24 will be considered together, and there will be no quiz on Chapter 28. The first quiz will be a brief (5 point) **pre-quiz** done from the class web page within a specific time frame. Pre-quizzes are designed to alert you to the main points in the chapter and to encourage your reading the chapter before the lecture. The **chapter quiz** will be a 10-minute (10 point) quiz given at the beginning of a class, with some time allowed for going over any questions before the quiz. Quiz and pre-quiz points are on the same scale as exam points. The lowest scores of the ten quizzes and the ten pre-quizzes will be dropped. There will be no make-up quizzes or pre-quizzes.

Exams: There will be three midterm exams, worth 100 points each, and a final exam, worth 200 points, given in class as indicated on the schedule. Missing an exam will require a written medical excuse, in which case an appropriate fraction of the final exam score will replace the missed exam. There will be no make-up exams.

Extra Credit - E-Mail Molecules (optional): Students will be assigned, via the course webpage, nine interesting organic compounds to investigate, with information returned via WebCT (no more than one e-mail molecule per week). Each molecule returned correctly will be worth 2 points extra credit, up to 18 points total. Instructions are on the class web page.

Grading: The final course grade will be determined by total points accumulated. The maximum is 635, based on the sum of exams (500) plus quizzes (135), as outlined above. Extra credit adds to your total. Over the years, I have found that letter grades nearly always fall into the following distributions: A/B borderline (85%), B/C (70%), C/D (55%), to pass the course (over 40%).

How to Succeed in This Course: 1) Clarify for yourself what you want/need to get out of this course, 2) participate actively in all course activities, 3) practice solving problems and developing appropriate skills, 4) use the technology and other learning resources that are made available, 5) reflect on what does and doesn't work for you in learning this material, and ask for help. These themes are elaborated in the "Day One" lecture on goals and expectations.

Miscellaneous: University policy will be strictly followed with respect to course withdrawal, academic honesty, and related subjects. Please ask the instructor or consult the latest PSU Bulletin if you have any questions.

Class Schedule

| <u>Date</u> | <u>WebCT</u> | <u>Classwork</u> |
|--------------------|----------------|---------------------------------------|
| Mon, Mar 29 | | Chap 17 - Aldehydes and Ketones |
| Wed, Mar 31 | Pre-Quiz 17 | Chap 17 |
| Fri, Apr 2 | | Chap 17 |
| Mon, Apr 5 | Pre-Quiz 18 | Chap 18 - Enols and Enolates |
| Wed, Apr 7 | | Quiz 17 Chap 18 |
| Fri, Apr 9 | Pre-Quiz 18 | Chap 19 - Carboxylic Acids |
| Mon, Apr 12 | | Quiz 18 Chap 19 |
| Wed, Apr 14 | Pre-Quiz 20 | Chap 20 - Carboxyl Derivatives |
| Fri, Apr 16 | | Quiz 19 Chap 20 |
| Mon, Apr 19 | Pre-Quiz 21 | Chap 20 |
| Wed, Apr 21 | | Quiz 20 Chap 21 - Ester Enolates |
| Fri, Apr 23 | | EXAM 1, Chapters 17 - 20 |
| Mon, Apr 26 | | Chap 21 |
| Wed, Apr 28 | Pre-Quiz 22 | Chap 22 - Amines |
| Fri, Apr 30 | | Quiz 21 Chap 22 |
| Mon, May 3 | Pre-Quiz 23-24 | Chap 22 |
| Wed, May 5 | | Quiz 22 Chap 23 - Aryl Halides |
| Fri, May 7 | Pre-Quiz 25 | Chap 24 - Phenols |
| Mon, May 10 | | Quiz 23-24 Chap 25 - Carbohydrates |
| Wed, May 12 | | Exam 2, Chapters 21 - 24 |
| Fri, May 14 | | Chap 25 |
| Mon, May 17 | Pre-Quiz 26 | Chap 25 |
| Wed, May 19 | | Quiz 25 Chap 26 - Lipids |
| Fri, May 21 | | Chap 26 |
| Mon, May 24 | Pre-Quiz 27 | Chap 27 - Amino Acids and Proteins |
| Wed, May 26 | | Quiz 26 Chap 27 |
| Fri, May 28 | | Quiz 27 Chap 28 - Nucleic Acids |
| <i>Mon, May 31</i> | <i>Holiday</i> | |
| Wed, June 2 | | Exam 3, Chapters 25 - 27 |
| Fri, June 4 | | Chap 28, Review |

Pre-quizzes are available on the class website until 8:30 am on the day indicated above.

Quizzes are given at the beginning of the class period indicated above.

Exams are given for the full 65 minutes of the class period indicated.

FINAL EXAM: ACS Standardized Exam (cumulative), Tuesday, June 8, 8:00 - 9:50 am