

CHEM 242-002 Organic Chemistry II (3 credits) Spring 2009

Instructor: Dr. Chulsung Bae

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Time: Tuesday & Thursday, 11:30 am – 12:45 pm

Lecture: WHI Aud

Office hours: Tuesday & Thursday 2:00 – 3:30 pm or by appointment (Mon. – Fri.)

Text: "Organic Chemistry", John McMurry, 7th Ed., Year 2008, Publisher: Thomson Brooks/Cole

Suggested additional references:

1. "Study Guide & Student Solutions Manual for John McMurry's Organic Chemistry", Susan McMurry, 7th Ed.
2. "ACS Organic Chemistry Exams – The Official Guide" (ISBN: 0-9708042-1-0, ~\$21, ordering form available at Chemistry Department Office and Dr. Bae's website)
3. Schaum's outlines "Theory and Problems of Organic Chemistry" 3rd Ed., Herbert Meislich, Howard Nechamkin, Jacob Sharefkin, George Hademenos, Year 1999 (McGrawHill, ISBN: 0-07-134165-X, ~\$15 available at amazon.com)

Prerequisites: General Chemistry I & II (CHEM 121 & 122) and Organic Chemistry I (CHEM 241)

Course Description: Nomenclature, structure, concept, mechanism, and synthesis of organic molecules will be discussed

Homework (90 points)

Selected additional problems of each chapter will be assigned.

Homework is due one week after completion of each chapter and should be collected in drop box before the class. Must be handwritten not typed.

Late homework will NOT be accepted. Graded homework will be returned after grading.

Do not forget your name in homework. Must be stapled.

Exam 1 (100), Exam 2 (100), Exam 3 (100), and Cumulative Final Exam (140 points)

See the tentative course schedule of page 3

Please note specific time for the final exam (10:10 am, May 7, Thursday)

No makeup exam will be given

Important Days in Schedule:

January 16, 2009: Final day to drop or withdraw and receive 100% refund

February 12, 2009: Exam 1 (Ch 12, 13, 14 (UV only), 17, and 18)

February 20, 2009: Final day to withdraw and receive 50% refund

March 17, 2009: Exam 2 (Ch. 19 – 21)

March 27, 2009: Final day to drop or withdraw

April 7 & 9, 2009: Spring break. No class.

April 23, 2009: Exam 3 (Ch. 22 – 24, 31)

May 7, 2007 (10:10 am): Cumulative Final Exam (Ch 1 – 31)

Grading: Final Course Grades will be assigned according to the following scale (approximate):

A : 501-530 points	A- : 471-500 points	
B+ : 441-470 points	B : 411-440 points	B- : 381-410 points
C+ : 351-380 points	C : 321-350 points	C- : 291-320 points
D+ : 261-290 points	D : 231-260 points	
F : 230 points and below		

Advice to students who are taking organic chemistry classes:

1. Organic chemistry is not terrible as the rumors say, but it is labor intensive.
2. Read the textbook. It is your best friend for the better part of the year.
3. You have to study a little at a time (at least 3 h a day and 20 h a week): you cannot cram everything in just before a test.
4. Come to class. Go to group help sessions even if they are not mandatory.
5. Work extra problems with a pencil. Build models. Recopy your lecture notes. You may realize there are things you do not completely understand.
6. Model sets are a great resource. They are essential to understanding stereochemistry.
7. Working on syntheses ties together everything you have learned.
8. If you know the underlying reasons why stuff happens, you can figure out a reaction you have never seen before.
9. Organic chemistry is intense but doable. I have not and will not lower the bar in my organic chemistry class. Organic chemistry requires a lot of work and it goes very fast, but it is doable.

Tentative Course Schedule

January 13: Ch 12. Mass Spectroscopy and Infrared Spectroscopy
January 15: Ch 12. Mass Spectroscopy and Infrared Spectroscopy
January 20: Ch 13. Nuclear Magnetic Resonance Spectroscopy
January 22: Ch 13. Nuclear Magnetic Resonance Spectroscopy and Ch 14 UV Spectroscopy
January 27: Ch 17. Alcohols and Phenols
January 29: Ch 17. Alcohols and Phenols

February 3: Ch 17. Alcohols and Phenols
February 5: Ch 18. Ethers and Epoxides
February 10: Ch 18. Ethers and Epoxides
February 12: Exam 1 (Ch 12, 13, 14 (UV only), 17, and 18)
February 17: Ch 19. Aldehydes and Ketones
February 19: Ch 19. Aldehydes and Ketones
February 24: Ch 19. Aldehydes and Ketones
February 26: Ch 20. Carboxylic Acids and Nitriles

March 3: Ch 20. Carboxylic Acids and Nitriles
March 5: Ch 21. Carboxylic Acid Derivatives and Nucleophilic Acyl Substitution Reactions
March 10: Ch 21. Carboxylic Acid Derivatives and Nucleophilic Acyl Substitution Reactions
March 12: Ch 21. Carboxylic Acid Derivatives and Nucleophilic Acyl Substitution Reactions
March 17: Exam 2 (Ch 19 – 21)
March 19: Ch 22. Carbonyl Alpha-Substitution Reactions
March 24: Ch 22. Carbonyl Alpha-Substitution Reactions
March 26: Ch 23. Carbonyl Condensation Reactions
March 31: Ch 23. Carbonyl Condensation Reactions

April 2: Ch. 24. Amines
April 7: Spring break. No class
April 9: Spring break. No class
April 14: Ch. 24. Amines
April 16: Ch. 24. Amines
April 21: Ch. 24. Amines & Ch 31. Synthetic Polymers
April 23: Exam 3 (Ch. 22 – 24, 31)
April 28: Ch 25. Brief Coverage of Biomolecules and Review for Final Exam
April 30: Review for Final Exam

May 7: (10:10 am): Cumulative Final Exam (ACS Exam) for Ch. 1 – 25, 31

Exam Policies

1. Since many students sit close to each other and I have limited number of proctors available, I will NOT allow wearing baseball cap during exams. I need to see your eyes during exams.
2. Have your UNLV student ID ready for ID check (Driver's license is accepted).
3. When 5 minutes are left in the exams, I will ask you to stay in your seats even though you finished exam. If too many students walk and leave the lecture room in a short period of time, it disturbs other students who are still taking exams. Please show your courtesy to other students.
4. You are NOT allowed to leave the lecture room with your test. All tests must be returned to the instructor after exams.

Academic Misconduct – Academic integrity is a legitimate concern for every member of the campus community; all share in upholding the fundamental values of honesty, trust, respect, fairness, responsibility and professionalism. By choosing to join the UNLV community, students accept the expectations of the Academic Misconduct Policy and are encouraged when faced with choices to always take the ethical path. Students enrolling in UNLV assume the obligation to conduct themselves in a manner compatible with UNLV's function as an educational institution.

An example of academic misconduct is plagiarism: "Using the words or ideas of another, from the Internet or any source, without proper citation of the sources." See the "Student Academic Misconduct Policy" (approved December 9, 2005) located at:

<http://studentlife.unlv.edu/judicial/misconductPolicy.html>.

Copyright – The University requires all members of the University Community to familiarize themselves and to follow copyright and fair use requirements. **You are individually and solely responsible for violations of copyright and fair use laws. The university will neither protect nor defend you nor assume any responsibility for employee or student violations of fair use laws.** Violations of copyright laws could subject you to federal and state civil penalties and criminal liability, as well as disciplinary action under University policies. To familiarize yourself with copyright and fair use policies, you are encouraged to visit the following website: <http://www.unlv.edu/committees/copyright/>.

Disability Resource Center (DRC) – The Disability Resource Center (DRC) coordinates all academic accommodations for students with documented disabilities. The DRC is the official office to review and house disability documentation for students, and to provide them with an official Academic Accommodation Plan to present to the faculty if an accommodation is warranted. Faculty should not provide students accommodations without being in receipt of this plan. UNLV complies with the provisions set forth in Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, offering reasonable accommodations to qualified students with documented disabilities. If you have a documented disability that may require accommodations, you will need to contact the DRC for the coordination of services. The DRC is located in the Student Services Complex (SSC), Room 137, and the contact numbers are: Voice (702) 895-0866, TTY (702) 895-0652, fax (702) 895-0651. For additional information, please visit: <http://studentlife.unlv.edu/disability/>.

Missed Class(es)/Student – As a general rule, a student missing a class or laboratory assignment because of observance of a religious holiday shall have the opportunity to make up missed work. Students must notify the instructor of anticipated absences by the last day of late registration, January 16, 2009, to be assured of this opportunity. Faculty may give students an additional week, but are encouraged to set a clear deadline.

NOTE: Students who represent UNLV at any official extracurricular activity shall also have the opportunity to make up assignments, but the student must provide official written notification to the instructor no less than one week prior to the missed class(es).

This policy shall not apply in the event that completing the assignment or administering the examination at an alternate time would impose an undue hardship on the instructor or the university that could reasonably have been avoided. There should be good faith effort by both faculty and student to come to a reasonable resolution. When disagreements regarding this policy do arise, they can be appealed to the department chair/unit director, college/school dean, and/or the Faculty Senate Academic Standards Committee.

For purposes of definition, extracurricular activities may include, but are not limited to; band, drama, intercollegiate athletics, recruitment, and any other activity sanctioned by a college/school dean, and/or the Executive Vice President and Provost.

Rebelmail – By policy, faculty and staff should e-mail students' Rebelmail accounts only. Rebelmail is UNLV's official e-mail system for students. It is one of the primary ways students receive official university communication. All UNLV students receive a Rebelmail account after admission to the university. Students' e-mail prefixes are listed on class rosters. The suffix is always @unlv.nevada.edu. Non-admitted students should contact the Student Help Desk at (702) 895-0761, in the Student Union Room 231, or by e-mail: studenthelp@unlv.edu. See <http://rebelmail.unlv.edu/> for additional information.

UNLV Writing Center – One-on-one or small group assistance with writing is available free of charge to UNLV students at the Writing Center, located in CDC-3-301. Although walk-in consultations are sometimes available, students with appointments will receive priority assistance. Appointments may be made in person or by calling 895-3908. The student's Rebel ID Card, a copy of the assignment (if possible), and two copies of any writing to be reviewed are requested for the consultation. More information can be found at: <http://writingcenter.unlv.edu/>

Classroom Policies/Rules – Although bringing children to class is allowed, any activity that disrupts the classroom and/or university operations is prohibited according to the Student Conduct Code, Section Two, III. K. and L. See <http://studentlife.unlv.edu/judicial/student.html>.

Mid-term Grades – Tentative mid-term grades (estimated letter grade) will be posted on WebCampus or available via e-mails (I will respond to only Rebelmail accounts for protection of confidentiality of individual student) after the second exam on March 17, 2009. I will also provide these early grades to academic advisors who can proactively contact students and help them identify resources to support their academic achievement.