

Chemistry 313-002 Organic Chemistry Fall 2009 Dr. HoneychuckThis syllabus can be found at <http://mason.gmu.edu/~rhoneych/313syllb.pdf>

Tues & Thurs 7:30-8:45 am Innovation 105

703-993-1076 rhoneych@gmu.edu 355 S&T I

Office hrs Tues & Thurs 9-10 am

Required: Solomons and Fryhle, "Organic Chemistry," 9th edition, 2008, and the accompanying Study Guide and Solutions Manual

Required: Klein, "Organic Chemistry I as a Second Language," 2nd edition, 2008

Required: Scantrons or Scantron clones, Forms 8000, 882-E, 882-ES, or PDP-100, 11 X 28 cm, green or blue-green

Optional: Honeychuck, "50 Questions" course packet

Optional: Plastic molecular models

<u>Date</u>	<u>S&F</u>	<u>Subjects</u>
9/1	1	Carbon compounds and chemical bonds
9/3	2.1-2.15, 2.17	Representative C compounds: functional groups
9/8	2.1-2.15, 2.17	Representative C compounds: functional groups
9/10	3	An introduction to organic reactions: acids and bases
9/15	3	An introduction to organic reactions: acids and bases
9/17	4.1-4.18A, 4.20	Alkanes: nomenclature and conformational analysis
9/22	4.1-4.18A, 4.20	Alkanes: nomenclature and conformational analysis
9/24	4.1-4.18A, 4.20	Alkanes: nomenclature and conformational analysis
9/29		Test 1
10/1	5.1-5.17	Stereochemistry: chiral molecules
10/6	5.1-5.17	Stereochemistry: chiral molecules
10/8	6	Ionic reactions: elimination and nucleophilic substitution
10/13		No 313. Monday classes meet today.
10/15	6	Ionic reactions: elimination and nucleophilic substitution
10/20	7	Alkenes and alkynes I: properties and synthesis
10/22	7	Alkenes and alkynes I: properties and synthesis
10/27	7	Alkenes and alkynes I: properties and synthesis
10/29		Test 2
11/3	8.1-8.15B, 8.16-8.21C	Alkenes and alkynes II: addition reactions
11/5	8.1-8.15B, 8.16-8.21C	Alkenes and alkynes II: addition reactions
11/10	8.1-8.15B, 8.16-8.21C	Alkenes and alkynes II: addition reactions
11/12	10.1-10.2B, 10.7, 10.9-10.9A	Radical reactions
11/17	11.1-11.11D, 11.12-11.14	Alcohols and ethers
11/19	11.15, 11.17-11.17A	Alcohols and ethers
11/24	11.17-11.17A, Skip 11.14A	Alcohols and ethers
11/26		No classes. Thanksgiving.

12/1		Test 3
12/3	11.16-11.16B	Alcohols and ethers
12/8	12.1-12.4E	Alcohols from carbonyl compounds; oxidation-reduction
12/10	12.1-12.4E	Alcohols from carbonyl compounds; oxidation-reduction
12/17		Comprehensive Final Exam, 7:30 am - 10:15 am, Innovation 105

The last day to add is September 15, 2009.

The last day to drop is October 2, 2009.

Tests 1 through 3 are worth 24 % of the course total each, and the Final Exam constitutes 28 %. Overall course grades are on a movable scale, not fixed or straight. The Tests and Final Exam are closed book and closed note. All of the information you need will be given to you in the test booklet. The Final Exam is comprehensive, meaning that it covers the entire semester. If you miss a Test for reasons beyond your control, see me immediately or you will receive a grade of zero on that Test. If the university is closed due to weather on the morning of a Test, the Test will automatically be given in the next class meeting.

You are responsible for **all** portions of **all** assigned sections on this syllabus unless otherwise directed. Any updates of this syllabus will be posted at the above address.

Organic Chemistry is shape-oriented and very qualitative. There is much new information to be absorbed, and many students are thrilled to find it is largely non-mathematical. It is an active paper subject. Practice by writing out structures and reactions, and do as many problems as you have time for. The text has many problems in and at the end of each chapter. The Study Guide has a series of quizzes which you should take without the help of friends or books, the same way you would in the Tests or Final Exam. A list of required problems is at <http://mason.gmu.edu/~rhoneych/313probs.pdf>. Get the most out of the problems by doing them first without looking at the answers, and by doing more than just this minimum set.

If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services at 993-2474. All academic accommodations must be arranged through that office.