

**New Room! Innov 103!**

**Chemistry 314-001 Organic Chemistry II Spring 2018 Dr. Honeychuck**

This syllabus can be found at <http://mason.gmu.edu/~rhoneych/314syllb.pdf>

Tues & Thurs 7:30-8:45 am Innov 103

703-993-1076 [rhoneych@gmu.edu](mailto:rhoneych@gmu.edu)

Office hrs Tues & Thurs 9-10 am Planet 307

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Tues & Thurs 2:00-5:00 pm Expl 4208

Text: Solomons, "Organic Chemistry," 12th edition text + solutions manual. You will need access to Special Topics C, D, and E in WileyPLUS.

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

Required: iclicker, iclicker2, or iclicker+

Required: Honeychuck, "50 Questions Chemistry 314 2017 Edition" course packet

Optional: Plastic molecular models

<u>Date</u>	<u>Sections</u>	<u>Subjects</u>
Jan 23	12.1-12.4E, 12.5-12.9	Carbonyl reduction; alcohol oxidation; organolithium and organomagnesium compounds
Jan 25	13.1-13.7	Conjugated unsaturated compounds
Jan 30	13.9-13.10D	Conjugated unsaturated compounds
Feb 1	14.1-14.7B	Aromatic compounds
Feb 6	14.7D-14.10	Aromatic compounds
Feb 8	15.1-15.12B, 15.15	Reactions of aromatic compounds
Feb 13	skip 15.15A	Reactions of aromatic compounds
Feb 15		Test 1
Feb 20	16.1-16.7C	Aldehydes and ketones I: nucleophilic addition to C=O
Feb 22	16.8-16.13B, 16.15	Aldehydes and ketones I: nucleophilic addition to C=O
Feb 27	18.1-18.3C, 18.4-18.4B, 18.10 reactions (1, 2, 3, 5)	Aldehydes and ketones II: enolate reactions
Mar 1	19.4-19.7B, 19.9 reactions (3, 4, 5)	Aldehydes and ketones II: enolate reactions

Mar 6	17.1-17.2I, 17.3-17.10A	Carboxylic acids and their derivatives
Mar 8	17.12	Carboxylic acids and their derivatives
Mar 13		Spring break
Mar 15		Spring break
Mar 20		Test 2
Mar 22	18.4C-18.9, 18.10 reactions (6, 7, 8, 9)	$\beta$ -Dicarbonyl compounds
Mar 27	19.1-19.3, 19.7A, 19.8	$\beta$ -Dicarbonyl compounds
Mar 29	19.9 reactions (1, 2, 5, 6)	$\beta$ -Dicarbonyl compounds
Apr 3	20	Amines
Apr 5	skip 20.11-20.11B	Amines
Apr 10	skip 20.12B	Amines
Apr 12	15.13, 23.3B, Special Topic D.03 in WileyPLUS	Phenols and aryl halides
Apr 17	15.14	Phenols and aryl halides
Apr 19	15.14	Phenols and aryl halides
Apr 24		Test 3
Apr 26	17.11, Special Topic E in WileyPLUS	Polymers
May 1	10.11, Special Topic C in WileyPLUS	Polymers
May 3	10.11, Special Topic C in WileyPLUS	Polymers
May 15		Comprehensive Final Exam, 7:30-10:15 am, Innov 103

You will need Scantrons to take the Tests and Final Exam.

All of the Quizzes together are worth 6 % of the course total. Tests 1 through 3 are worth 22 % of the course total each, and the Final Exam constitutes 28 %. Overall course grades are on a movable scale, not fixed or straight. Bring Scantrons of the type listed above to each Test and the Final Exam, as well as Number 2 pencils with erasers that don't smear. The Quizzes, Tests, and Final Exam are closed book and closed note. All of the information you need for the Tests and Final Exam 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** 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/314probs.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 Disability Services at 993-2474. All academic accommodations must be arranged through that office.

### **Quizzes, iclickers, and Blackboard**

Chemistry 314-001 is an iclicker course. You will use your iclicker to take in-class Quizzes but not Tests. The use of a smart phone or laptop instead of your iclicker is forbidden. All of the Quizzes together are worth 6 % of the course total.

You can use an iclicker, iclicker2, or iclicker+. You must register your iclicker at <https://www.iclicker.com/remote-registration-form-for-classic>

Tell it:

First Name: to match what GMU (Patriotweb) thinks

Last Name: to match what GMU (Patriotweb) thinks

Student ID: your G number

Email: your GMU e-mail address

Remote ID: on your iclicker

You do not have to pick CHEM 314 anywhere. Our software is iClicker Classic, and we are on Blackboard. Do not register your iclicker through Blackboard. Instead, use the above address (<https://www.iclicker.com/remote-registration-form-for-classic>).

If you used the same iclicker last semester, you will probably have to re-register it. iclicker.com usually erases all GMU iclickers at the end of each semester or each year. Your quiz grades reside in a database with your Remote ID but without your name if you don't register. They will not be erased or lost. Just register later.

Your quiz grades will be posted on Blackboard. You should check them. A series of zeroes or dashes usually means you need to register or re-register your iclicker. Test grades and course materials will not be put on Blackboard, however. Short announcements about Blackboard will be placed on Blackboard. Usually these are also e-mailed to you.

The purpose of the quizzes is to encourage you to keep up with the material. They are not difficult. You should view them as the one part of the course where it is possible to earn all of the points.