Course Objectives
CHEM:1080 provides students with an introduction to fundamental concepts of organic chemistry and biochemistry; those concepts will be related to different aspects of real-life and health. Students will refresh concepts of general chemistry studied earlier and then learn nomenclature, physical properties, and reactions of simple and complex organic compounds, the latter including polymers, DNA, RNA, and proteins. Learned information will be applied within the context of a variety of organic and/or biochemistry related problems and applications. This course is part of the General Education Program (GEP) in the College of Liberal Arts and Sciences (CLAS) and can be used to fulfill part of the requirement in the Natural Sciences category.

Lecture: MWF 2:30PM - 3:20PM in W290 CB

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Teaching Assistants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Yakov Letuchy</td>
<td>Mr. Mortezaali (Ali) Razzaghi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Office / Drop-in office:</th>
<th>E362 CB / E358 CB</th>
<th>E208 CB (Chemistry Resource Center)</th>
<th>E208 CB (Chemistry Resource Center)</th>
</tr>
</thead>
<tbody>
<tr>
<td>email: (Include 4:008 in the subject!)</td>
<td><a href="mailto:yakov-letuchy@uiowa.edu">yakov-letuchy@uiowa.edu</a></td>
<td><a href="mailto:mortezaali-razzaghi@uiowa.edu">mortezaali-razzaghi@uiowa.edu</a></td>
<td><a href="mailto:matthew-lovander@uiowa.edu">matthew-lovander@uiowa.edu</a></td>
</tr>
<tr>
<td>Office Hrs. in Drop-in office:</td>
<td>Tues 8:00 AM - 9:15 AM, Thurs 1:00 PM - 2:15 PM or by appointment</td>
<td>Fridays 09:30-10:30 and 11:30-12:30</td>
<td>Thu 12:30 - 1:30 &amp; Fri 12:30 - 1:30</td>
</tr>
</tbody>
</table>

Discussion Sessions:
Discussion sections DO NOT meet the first week of classes (January 20-23). The first discussion meetings will start the week of January 27th. Discussion sections of 30 students are a very helpful, more personal complement to lectures. These sessions provide students with the opportunity to ask questions and gain problem-solving experience. Graduate teaching assistants will also facilitate learning by highlighting key course concepts and efficient problem-solving strategies. For discussion section meeting times and room assignments, please visit the ISIS website: [http://isis.uiowa.edu/](http://isis.uiowa.edu/).

Attendance will be taken for each discussion session. You need to contact the TA if you will be absent from a session or would like to attend different section. Attendance and participation is highly encouraged throughout the entire semester. Five points per meeting are awarded for participation in discussion activities, up to a maximum of 50 points for the semester (see grading section below).

Course Website: [http://icon.uiowa.edu](http://icon.uiowa.edu)
CHEM:1080 - Iowa Courses Online (ICON) website URL = icon.uiowa.edu. Use your Hawk ID and Hawk ID password to login to ICON. Lecture notes, syllabus, course announcements, exam room assignments, and other information will be posted on ICON. You should check ICON frequently during the semester.

Lecture outlines: Lecture outlines will be available on the ICON site in PDF formats (at least two days before each class), however changes can be made both before and after lectures. Updated lectures will be posted on ICON, replacing those posted earlier; related Notes will be posted. Students are expected to print the outlines and fill in the details discussed in class, or annotate the outlines electronically.

Course Materials
Required: “General, Organic and Biological Chemistry”, 2nd Edition, Smith, J. G. It is available in two forms – hard cover or loose-leaf, and are now listed as follows on Hawk Shop website:
Course Content and Prerequisites

Objectives: Introductory organic chemistry and biochemistry: structure and representations of molecules; physical and chemical properties; introduction to reactions; applications: polymers, nutrition, drugs, etc.

Prerequisites: 004:007 (CHEM: 1070) or high school chemistry

A basic understanding of atoms and molecules will be assumed.

Course Structure

Chem 4:008 consists of three components (lecture, discussion, & quizzes/exams).
(1) Lecture – Prof. Letuchy
(2) Discussion – a graduate teaching assistant (coordinated by Prof. Letuchy)
(3) Exams – Prof. Letuchy

Attendance is expected at all components of the course. Students should also expect to devote at least six hours per week to out of class studying for this course: 6 hours = 3 credits x (2 hours out of class time)/credit.

The course has been designed and organized to help you learn chemistry, but no course or instructor can learn for you. Learning is something only you can do.

Important Note:
You are expected to be an active participant in learning chemistry in this course. The instructor does not give grades; you earn them throughout the entire semester. If and when you realize that you are doing poorly, you should SEEK HELP QUICKLY ... DO NOT FALL BEHIND. The instructor and TAs are very willing to provide help; make good use of office hours.

Course Administration

A majority of course business can be accomplished at the Chemistry Center, E225 CB. The following SHOULD be accomplished at the Center: drop/add/section change signatures, make-up exam scheduling, and chemistry lost-and-found. The hours are 8 am -12 noon & 1-5 pm on M-Th and 8 am-12 Noon & 12:30-4:30 pm on Friday. Phone: 319-335-1341, email: chemistry-center@uiowa.edu.

Complaints

Complaints and appeals can be filed with the Departmental Executive Officer (Sarah Larsen) at the Department of Chemistry administrative offices, E331 CB (335-1350).

Examinations

Three 1.5-hour unit exams (33 questions) and a 2-hour cumulative final exam (44 questions), all closed book/notes, will include Lecture and Homework questions. The multiple-choice exams are graded on the number of correct answers, with no penalty for guessing. Students should bring two #2 pencils with erasers, their University ID, and a basic calculator to each exam. Graphing calculators, programmable calculators, or data transmitting devices (e.g., PDA, laptop, cell phone) will not be allowed at the exams. Room assignments will be announced in class and listed on the ICON 4:12 website. Out of fairness to other students, exams cannot be re-scheduled to accommodate personal holiday or other travel plans. Since the Registrar has not yet set the spring Final Exam schedule, do not make plans to leave campus before the last exam period of the last day of final exam week, May 15.

Preliminary Exam/Lecture coverage.

Exam #1: Wednesday, February 25, 8:45 - 10:15 PM – Lectures 1-4 (and corresponding book chapters).
Exam #2: Wednesday, April 1, 8:45 - 10:15 PM – Lectures 5-8 (and corresponding book chapters).
Exam #3: Wednesday, April 22, 8:45 - 10:15 PM – Lectures 9-12 (and corresponding book chapters).
Final exam: TBD – Lectures 13-15 will have the same number of questions as per lecture in Exams 1-3; the rest – comprehensive.

<table>
<thead>
<tr>
<th>Date</th>
<th>Start-End Time</th>
<th>Exam Seating</th>
<th>Room(s) Assignments</th>
<th>Makeup Exam Date</th>
<th>Makeup Exam Time</th>
<th>Make up Exam Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/25/2015</td>
<td>8:45 - 10:15pm</td>
<td>Double</td>
<td>100 PH, W290CB</td>
<td>3/6/15</td>
<td>6:30 – 8:00pm</td>
<td>W290CB</td>
</tr>
<tr>
<td>4/1/2015</td>
<td>8:45 - 10:15pm</td>
<td>Double</td>
<td>100 PH, W290 CB</td>
<td>3/6/15</td>
<td>6:30 – 8:00pm</td>
<td>W290CB</td>
</tr>
<tr>
<td>4/22/2015</td>
<td>8:45 - 10:15pm</td>
<td>Double</td>
<td>100 PH, W290 CB</td>
<td>3/6/15</td>
<td>6:30 – 8:00pm</td>
<td>W290CB</td>
</tr>
</tbody>
</table>

Quizzes are generally given after completion of two chapters

Make Up Exams
When there is a conflict between two or more exams scheduled outside their regular class times, makeup exams should be assigned according to the following precedence rules using the new subject course numbering system:

During SPRING semesters, courses having higher subject alpha characters or higher course numbers when the conflict is within a subject will take precedence. If the conflict is within the same subject and course then the higher section number will take precedence.

Makeup exams require a University-approved excuse. Please fill out the form and submit documentation at the Chem. Center, or (NEW) fill out exam make-up requests electronically using link https://uiowa.qualtrics.com/SE/?SID=SV_ebbpDY2M8MA4hEN. There is also the option of uploading a doctor’s note or other documentation. No need to approach instructor, unless you wish to appeal the Chem. Center decision.

Memo for Instructors Regarding Medical Absences from Class
Student Health & Wellness reports that a severe cold and flu season is expected this year, and Student Health & Wellness staff will be committing significant time on patient care and the confinement of sick students away from classes. Our priority as the semester gets under way must be to minimize the number of sick students on campus or sitting in class, exposing others to illness.

In order to help keep medical services available to people who truly need to be seen by a doctor, University policy is that faculty and teaching assistants cannot require a doctor’s note from a student who is requesting an excused absence from class due to illness. Students should, however, self-report illnesses using the absence from class form on the Registrar’s website: http://www.registrar.uiowa.edu/LinkClick.aspx?fileticket=D7YMmOGcC6s%3d&tabid=79&mid=415. Students cannot be penalized for missing a class due to illness. Faculty and teaching assistants should provide appropriate make-up work for those students with excused absences due to illness (this includes attendance requirements, assignments, quizzes, and examinations).

Students who do go to Student Health & Wellness will be encouraged to sign up for My Chart (in which case they can print a history of their visits to Student Health & Wellness). Student Health & Wellness will provide (for students who have not signed up for My Chart) an After Visit Summary (AVS) form. Students may choose to attach this documentation to their absence from class form, which in turn, can be attached to the above make-up request form or given (emailed) to the student’s teaching assistant.

Final Exam Conflicts
A student with two final examinations scheduled for the same period or more than two examinations scheduled for the same day will be notified by the Registrar that they are eligible for scheduling a makeup final exam. However, students are required to contact the Chemistry Center to register their intent to take advantage of this opportunity.
and must do so within two weeks (14 days) of being notified by the Office of the Registrar of their final examination week schedule.

**In-Class Quizzes**  
Quizzes will be given during class, and will be announced in class and posted on ICON.

**Homework questions**  
Will be suggested for your practice. These will be discussed in discussion sessions, but will not be graded. However questions from suggested homework or similar ones might be used in quizzes or exams.

**Grading**  
The grade is based on earned points:
- Midterm exams @ 100 pts each .................................................................300 pts
- Final Exam ...............................................................................................150 pts
- In-class quizzes (5@10 pts) .................................................................50 pts  
  *(Depending on the schedule, one additional quiz might be given; in that case, the lowest of the six quiz scores will be dropped)*
- Discussion group participation (10@5 pts) ........................................50 pts
  *(Participation in only 10 out of 14 discussion sections will be rewarded by 5 points per discussion.)*

Total ........................................550 pts

Plus and minus grades will be assigned. Those grades will not necessarily be evenly split among the three categories (for example, # B+ ≠ # B ≠ # B–). The grade of A+ is occasionally assigned to reward exceptional achievement.

<table>
<thead>
<tr>
<th>College Recommended Grades</th>
<th>Estimated Grade Distribution*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>% of class</td>
</tr>
<tr>
<td>A</td>
<td>15</td>
</tr>
<tr>
<td>B</td>
<td>34</td>
</tr>
<tr>
<td>C</td>
<td>40</td>
</tr>
<tr>
<td>D</td>
<td>8</td>
</tr>
<tr>
<td>F</td>
<td>3</td>
</tr>
</tbody>
</table>

Average CLAS-recommended GPA = 2.50 / 4.0
★ This distribution is only a tentative estimate. Actual grade cutoffs can be different, based on the overall performance of the class.

No detailed letter grades (+ and - grades) will be assigned for the midterm exams, but the % and preliminary grade distribution will be provided on the ICON and during class after each exam.

**Accommodations for Disabilities**  
Anyone who has a disability which may require some modification of seating, testing, or other class requirements should see the instructor during office hours so that appropriate arrangements may be made. In addition, you should contact the Office of Student Disability Services, 3101 Burge Hall (335-1462) and then the Chemistry Center (E324 CB, 335-1341). See [http://www.uiowa.edu/~sds/](http://www.uiowa.edu/~sds/)

**College of Liberal Arts and Sciences: Policies and Procedures**

[ Administrative Home ](http://clas.uiowa.edu/students/handbook)

The College of Liberal Arts and Sciences is the administrative home of this course and governs matters such as the add/drop deadlines, the second-grade-only option, and other related issues. Different colleges may have different policies. Questions may be addressed to 120 Schaeffer Hall, or see the CLAS Academic Policies Handbook at [http://clas.uiowa.edu/students/handbook](http://clas.uiowa.edu/students/handbook).
University policy specifies that students are responsible for all official correspondences sent to their University of Iowa e-mail address (@uiowa.edu). Faculty and students should use this account for correspondences. *(Operations Manual, III.15.2, Scroll down to k.11.)* The course instructors and TAs will typically respond to student e-mails within two working days.

**Academic Honesty**

All CLAS students or students taking classes offered by CLAS have, in essence, agreed to the College's *Code of Academic Honesty:* "I pledge to do my own academic work and to excel to the best of my abilities, upholding the IOWA Challenge. I promise not to lie about my academic work, to cheat, or to steal the words or ideas of others; nor will I help fellow students to violate the Code of Academic Honesty." Any student committing academic misconduct is reported to the College and placed on disciplinary probation or may be suspended or expelled *(CLAS Academic Policies Handbook).*

**Student Classroom Behavior**

The ability to learn is lessened when students engage in inappropriate classroom behavior, distracting others; such behaviors are a violation of the Code of Student Life. When disruptive activity occurs, an instructor has the authority to determine classroom seating patterns and to request that a student exit the classroom, laboratory, or other instructional area immediately for the remainder of the period. One-day suspensions are reported to Departmental, Collegiate, and Student Services personnel (Office of the Vice President for Student Services and Dean of Students).

**CLAS Final Examination Policies**

The final examination schedule for each class is announced by the Registrar generally by the fifth week of classes. Final exams are offered only during the official final examination period. **No exams of any kind are allowed during the last week of classes.** All students should plan on being at the UI through the final examination period. Once the Registrar has announced the date, time, and location of each final exam, the complete schedule will be published on the Registrar's web site and will be shared with instructors and students. It is the student's responsibility to know the date, time, and place of a final exam.

**Understanding Sexual Harassment**

Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. All members of the UI community have a responsibility to uphold this mission and to contribute to a safe environment that enhances learning. Incidents of sexual harassment should be reported immediately. See the UI Comprehensive Guide on Sexual Harassment for assistance, definitions, and the full University policy.

**Reacting Safely to Severe Weather**

In severe weather, class members should seek appropriate shelter immediately, leaving the classroom if necessary. The class will continue if possible when the event is over. For more information on Hawk Alert and the siren warning system, visit the Department of Public Safety website.

**Additional Instructional and Tutoring Resources for Students**

1. Chemistry Department Tutoring Information: [http://www.chem.uiowa.edu/undergraduate/for-current-students/tutoring](http://www.chem.uiowa.edu/undergraduate/for-current-students/tutoring)
2. Tutor Iowa: [http://tutor.uiowa.edu](http://tutor.uiowa.edu)
3. College of Engineering Tutoring Program: [http://www.engineering.uiowa.edu/ess/current-students/academic-support/tutors](http://www.engineering.uiowa.edu/ess/current-students/academic-support/tutors)
4. Supplemental Instruction through University College: [http://uc.uiowa.edu/swat/supplemental-instruction-si](http://uc.uiowa.edu/swat/supplemental-instruction-si)

<table>
<thead>
<tr>
<th>CHEM:1080</th>
<th>General Chemistry II</th>
<th>Mondays 12:30-1:20pm</th>
<th>234 BHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xinyi Liang</td>
<td><a href="mailto:xinyi-liang@uiowa.edu">xinyi-liang@uiowa.edu</a></td>
<td>Wednesdays 3:30-4:20pm</td>
<td>W181 PBB</td>
</tr>
</tbody>
</table>

5. Supplemental Instruction for NURSING and PRE_NURSING students through Department of Nursing
<table>
<thead>
<tr>
<th>CHEM:1080</th>
<th>General Chemistry II</th>
<th>Starts week of Feb 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Soeldner</td>
<td><a href="mailto:stephanie-soeldner@uiowa.edu">stephanie-soeldner@uiowa.edu</a></td>
<td></td>
</tr>
<tr>
<td>Emily Ford</td>
<td><a href="mailto:emily-ford@uiowa.edu">emily-ford@uiowa.edu</a></td>
<td></td>
</tr>
<tr>
<td>Grace Hingl</td>
<td><a href="mailto:stephanie-soeldner@uiowa.edu">stephanie-soeldner@uiowa.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

6. Tutoring for Student Athletes: [http://www.uiowa.edu/~athlss/current%20students/academics/Tutoring/tutoring.htm](http://www.uiowa.edu/~athlss/current%20students/academics/Tutoring/tutoring.htm)

7. University Housing Tutoring, 335-3700: [http://housing.uiowa.edu/tutoring](http://housing.uiowa.edu/tutoring)