Chemistry 8322/4322
Advanced Organic Chemistry
Spring, 2017

4 credits (8322) 3 credits (4322)

Course: http://www1.chem.umn.edu/groups/hoye/teaching/Teaching_8322_4322_Spring_2017

Webpage: Handouts, problem sets, the evolving reading assignment list (with exam schedule and problem set due dates), and some additional resources (like old exams) will be available at this site.

Instructor: Thomas R. Hoye 422/419 Smith Hall 612-625-1891 hoye@umn.edu

TA: Sean Ross 415 Smith 775-240-7010 rossx636@umn.edu

Lectures: MWF; 11:15–12:05 117 Bruininks Hall

Office Hours: Hoye (locations below) Wed, 12:15-1:00 pm and Fri, 3:30-4:30 pm
Ross (Smith 101J) Mon, 4:30-5:30 pm

Textbooks:

Required access:


Supplementary:


Auxiliary:


This course is intended to provide an appreciation for and understanding of the major topics and issues confronting practitioners of organic synthesis. Mechanistic analysis, structure, stereochemistry, asymmetric synthesis, conformational analysis, and, especially, stereo-, regio-, and chemoselectivity will attract much of the discussion.

**Course Grades:**

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<th>8322</th>
<th>4322</th>
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<tbody>
<tr>
<td>Problem Set</td>
<td>7.5%</td>
<td>10%</td>
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<tr>
<td>Project*</td>
<td>25.0%</td>
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<tr>
<td>Midterm Exams (2)</td>
<td>37.5%</td>
<td>50%</td>
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<tr>
<td>Final Exam</td>
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<td>40%</td>
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*ACS-style Presentations on Saturday April 29th.

**Problem Sets:** twelve, throughout the semester (ca. weekly, except for exam weeks).

**Project (8322):** ACS-Style Research Presentations (randomly assigned teams of two students per assigned full paper) on Saturday, April 29 in Kolthoff 283; additional details to follow.

**Exams (all):**

- **Midterm Exams:** 7–9 pm Thursday, March 2 (331 Smith) (19 lectures)
- **Midterm Exams:** 7–9 pm Thursday, April 20 (331 Smith) (18 lectures)
- **Final Exam:** 10 am–1 pm Thursday, May 11 (location TBA) (7 lectures)

**Office Hour locations (Spring, 2017):**

- Wed 1-18 122S
- Wed 1-25 101J Smith
- Wed 2-1 122S (SR)
- Wed 2-8 122S
- Wed 2-15 101J Smith (SR)
- Wed 2-22 122S
- Wed 3-1 122S
- Wed 3-8 122S
- Wed 3-15 none
- Wed 3-22 101J Smith (SR)
- Wed 3-29 122S (SR)
- Wed 4-5 122S (SR)
- Wed 4-12 101J Smith
- Wed 4-19 122S
- Wed 4-26 101J Smith
- Wed 5-3 122S
- Wed 5-10 122S

**Schedule for make-up of March 24-April 5, 2017:**

- Fri 3-24 Sean Ross 117 Bruininks
- Mon 3-27 Prof. Chris Douglas “Sarain A Survivor” 117 Bruininks
- Wed 3-29 Prof. Joe Topczewski “Schweinfertins Forever” 117 Bruininks
- Fri 3-31 Sean Ross 117 Bruininks
- Mon 4-3 Sean Ross 117 Bruininks
- Mon 4-5 Sean Ross 117 Bruininks