**Chemistry 8322/4322**

**Advanced Organic Chemistry**

**Spring, 2019**

- **4 credits (8322)**
- **3 credits (4322)**

**Course Webpage:**
[http://www1.chem.umn.edu/groups/hoye/teaching/Teaching_8322_4322_Spring_2019](http://www1.chem.umn.edu/groups/hoye/teaching/Teaching_8322_4322_Spring_2019)

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

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

**TAs:**
Daniel Lee  
413 Smith  
608-514-2126  
leex6219@umn.edu

**Lectures:**
MWF; 11:15–12:05  
331 Smith Hall

**Office Hours:**
Hoye (419 Smith)  
Mon, 12:15-1:15 pm and Fri, 1:15-2:15 pm  
starting Jan 22 (but NOT Feb 1)

Lee  
Weds, 5-6 pm, **Feb 27 and April 17** (122 Smith)  
Mon, 5-6 pm, **May 13** (101J Smith)

**Online Resource:**
required access: [https://www.synarchive.com](https://www.synarchive.com)

**Textbooks:**

*other texts of interest:*


**Course Philosophy and Approach:**

This course is intended to provide an understanding of and appreciation for the major topics and issues confronting those who prepare carbon-containing compounds (aka, practitioners of organic synthesis). Mechanistic analysis, structure, stereochemical aspects, asymmetric synthesis, conformational analysis, and, especially, stereo-, regio-, and chemoselectivity will attract much of our attention, discussion, and consideration.
### Course Grades:

<table>
<thead>
<tr>
<th></th>
<th>8322</th>
<th>4322</th>
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</thead>
<tbody>
<tr>
<td>Problem Set</td>
<td>7.5%</td>
<td>10%</td>
</tr>
<tr>
<td>Project**</td>
<td>25.0%</td>
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</tr>
<tr>
<td>Midterm Exams (2)</td>
<td>37.5%</td>
<td>50%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>40%</td>
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** ACS-style Presentations on Saturday April 27\(^{th}\) (10 am to ca. 2 pm).

### Problem Sets:

Twelve, throughout the semester (~weekly, except for exam weeks).

### Project (8322):

ACS-Style Research Presentations [*randomly assigned* teams of two (or three) students per assigned full paper] on Saturday, April 27 in 117/119 Smith; additional details to follow.

### Exams (all):

<table>
<thead>
<tr>
<th>Exams</th>
<th>Time</th>
<th>Date</th>
<th>Room</th>
<th>Lectures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm Exams</td>
<td>6–8 pm</td>
<td>Thursday, Feb 28</td>
<td>331 Smith</td>
<td>(16 lectures)</td>
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<tr>
<td></td>
<td>6–8 pm</td>
<td>Thursday, April 18</td>
<td>331 Smith</td>
<td>(18 lectures)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>1:30–4:30 pm</td>
<td>Tuesday, May 14</td>
<td>331 Smith</td>
<td>(8 lectures)</td>
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</tbody>
</table>
Missed Exams Policy

In the case of a true emergency, serious illness, or University-related trip that prevents a student from taking a midterm exam, an excused absence may be granted in accordance with University policy (link). To obtain an excused absence, students must contact the instructor in advance OR as soon as circumstances allow to discuss the nature of the emergency. Documentation will be required. The unweighted average score of all the student’s other exams will replace the zero from the excused midterm exam. Only one missed midterm exam will be replaced in this fashion. If circumstances prevent a student from taking more than one midterm exam, the student should contact the instructor as soon as possible to schedule a meeting to discuss options available.

http://www.policy.umn.edu/Policies/Education/Education/MAKEUPWORK.html

Department of Chemistry Diversity and Inclusion Committee

Collaboration among people of all cultures and backgrounds enhances our experiences and contributes to excellence in teaching, learning, and research. We strive for a climate that celebrates our differences and strengthens our department by embracing and working to increase diversity, equity, and inclusion.

For more information about our departmental efforts and upcoming activities:
http://z.umn.edu/ChemDiversity.

For a list of diversity related resources:
http://z.umn.edu/DiversityandInclusionResources.

Syllabus Requirements – Policy Statements (per UMN)

Instructors must have as part of the syllabus copies of, references to, or statements on the following and are encouraged to discuss elements of the policies particularly applicable to their course:

1. Grade definitions from the Administrative Policy: *Grading and Transcripts: Twin Cities, Crookston, Morris, Rochester*

2. Scholastic Dishonesty (see Board of Regents Policy: *Student Conduct Code* and the Administrative Policy: *Teaching and Learning: Instructor and Unit Responsibilities: Twin Cities, Morris, Rochester*).


5. Board of Regents Policy: *Sexual Harassment, Sexual Assault, Stalking and Relationship Violence*


7. Board of Regents Policy: *Disability Services*

8. Statement about the availability of mental health and stress management services: http://www.mentalhealth.umn.edu

9. Board of Regents Policy: *Academic Freedom and Responsibility*

The Office of the Executive Vice President and Provost will prepare electronic copies of these policy statements for instructors to incorporate into syllabi. Instructors are encouraged to provide paper copies of these policies to classes with first-year students.