Chem 241 Advanced Organic Chemistry I
Jose S. Madalengoitia
jmadalen@uvm.edu
Office hours: open


**Important dates**
September 27; literature review topic must be approved by me
October 16; Midterm, location and time TBD
November 1; literature review due
December 4, 6, 8 literature review oral presentation
December 15, 7:30-10:15 Dewey 212

**Grading**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Cumulative Final Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Problem Sets</td>
<td>30%</td>
</tr>
<tr>
<td>Special Topics Review Paper</td>
<td>10%</td>
</tr>
<tr>
<td>Oral Presentation</td>
<td>5%</td>
</tr>
</tbody>
</table>

**Learning Objectives:** Being able to (i) predict the 3d-structures and reactivities of molecules, (ii) understand how molecules interact with each other in 3d-space and (iii) use this knowledge to derive reaction mechanism & selectivities.

**Academic Conduct:**

Cheating or plagiarism will be considered grounds for failing the course (a numerical score of zero). All graded assignments must be your own work. Cases of cheating or plagiarism will lead to further disciplinary action, which may include dismissal from the University according to the rules set forth in the University of Vermont's Code of Academic Integrity:

http://www.uvm.edu/~uvmppg/ppg/student/acadintegrity.pdf

**Stereochemistry**

Conformational, steric and stereoelectronic effects

Basic mechanistic principles

Reactions of nucleophilic carbon

Reactions of nucleophilic carbon with carbonyl carbons

Functional group interconversion by nucleophilic substitution
Electrophilic additions to carbon-carbon multiple bonds

Oxidations

 Reductions

Concerted reactions

**Religious Holidays:**

Students have the right to practice the religion of their choice. *If you need to miss class to observe a religious holiday, please submit the dates of your absence to me in writing by the end of the second full week of classes.* You will be permitted to make up work within a mutually agreed-upon time.

**Student Learning Accommodations:**

In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact ACCESS, the office of Disability Services on campus. More information (including contact information) can be found online at [www.uvm.edu/access](http://www.uvm.edu/access). ACCESS works with students and faculty in an interactive process to explore reasonable and appropriate accommodations via an accommodation letter to faculty with recommended accommodations as early as possible each semester.