Chem 241 Advanced Organic Chemistry I
Jose S. Madalengoitia
jmadalen@uvm.edu
Office: Discovery W110
Office hours: Monday 10:30-11:30, Tuesday 1:30-2:30, Friday 9:30-10:30


**Important dates**
September 28; literature review topic must be approved by me
October 17; Midterm, location and time TBD
November 2; literature review due
December 13, Final, 7:30-10:15 Dewey 212

**Grading graduate students**
Midterm Exam 25%
Cumulative Final Exam 30%
Problem Sets 30%
Special Topics Review Paper 10%
Oral Presentation 5%

**Grading undergraduate students**
Midterm Exam 25%
Cumulative Final Exam 30%
Problem Sets 30%
Special Topics Review Paper 15%

**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

Concerted reactions

Functional group interconversion by nucleophilic substitution

Electrophilic additions to carbon-carbon multiple bonds

Oxidations

Reductions

**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.