Chemistry 130a: Advanced Organic Chemistry  
Fall, 2015

Class Meeting: MWT 9:00 -9:50  
Location: Volen 106  
Instructor: Li Deng  
Office: Edison Lecks 322  
Office hours: MT 2:00-3:30 pm or by appointment


Homework: Homework will be assigned and they will form the basis for exams.

Grade:  
1) Two mid-term exams, 100 points/each;  
2) One Final Exam, 200 points;  

Total points: 200+200 = 400 points

Exam Dates: Two Midterm exams will be scheduled during the semester. The final exam will be held at the time scheduled by the University for this time block.

LD arrangements: If you are a student with a documented disability at Brandeis University and if you wish to request a reasonable accommodation for this class, please see me immediately. Please keep in mind that reasonable accommodations are not provided retroactively.

Subject Materials to be covered:

1) Introduction to FMO Theory  
2) Stereoelectronic Effects and Conformational Analysis  
3) Stereochemistry  
4) General Aspects of Organic Reaction Mechanism  
5) Acid and Base Properties of Organic Molecules  
6) Electrocyclic Reactions  
7) Nucleophilic Substitution Reactions  
8) Case studies of mechanistic investigations of modern catalytic reactions

Success in this 4 credit hour course is based on the expectation that students are familiar with all the contents covered in two semesters of college level courses in organic chemistry and students will spend a minimum of 9 hours of study time per week in preparation for class (readings, papers, discussion sections, preparation for exams, etc.).