



**Princeton University**  
**DEPARTMENT OF CHEMISTRY**  
**Evening Schedule – Fall 2017**

**CHM 530 SYNTHETIC ORGANIC CHEMISTRY**

**Prof. Todd K. Hyster**

A mechanism-based course on organic synthesis for advanced undergraduates and beginning graduate students who wish to learn chemical synthesis of organic compounds. Course deals with various classical and modern synthetic methodologies. Particular emphasis is placed on understanding scope, limitations, and selectivity based on the mechanism, with the goal to understand fundamental principles underlying each synthetic method. The knowledge and perspective acquired in this course is expected to provide sufficient foundation to understand and use the research literature in organic synthesis.

**Reading list:**

**Required:** Maruzen 5000, *Biochemistry Molecular Modeling Kit*

Source for modeling kit:

[http://www.maruzen.info/hgs/catalog/product\\_info.php?products\\_id=31](http://www.maruzen.info/hgs/catalog/product_info.php?products_id=31)

**Highly Recommended:**

**Kurti & Czako** (Elsevier)

*Strategic Applications of Name Reactions/Organic Synthesis*

**Anslyn & Dougherty** (University Science), *Modern Physical Organic Chemistry*

**Carey & Sundberg** (Springer)

*Advanced Organic Chemistry – Part B: Reactions and Synthesis*

**Lecture:** Tuesdays 7:00–10:00 pm

**Location:** TBA

**Contact for Registration:** Patti Wallack

**Phone:** 609-258-4079

**e-mail:** pwallack@Princeton.EDU

**CHM 532 MECHANISTIC AND PHYSICAL ORGANIC CHEMISTRY**

**Prof. Bradley P. Carrow, Prof. Robert Knowles**

This course covers the fundamentals of physical organic chemistry to provide the students with a thorough understanding of chemical reactivity. Within the framework of organic reaction mechanisms, the class discusses a number of topics, including the essence of structure and bonding, the nature of reactive intermediates, and the use of kinetic measurements and isotopic labeling studies to decipher chemical mechanisms. Grades are based on problem sets, a mid-term, and a final exam.

**Reading list:**

**E.V. Anslyn, D.A. Dougherty**

*Modern Physical Organic Chemistry* (2005)

ISBN 9781891389313

**Lecture:** Mondays 7:00–10:00 pm

**Location:** TBA

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**ADDITIONAL INFORMATION:**

**Visitor Parking:** Lot 21 (Intersection of Faculty Road and Fitzrandolph Road)

**Campus Map:** <http://www.princeton.edu/transportation/RulesandRegs.pdf>

**Important Dates:**

**First Day of Classes:** September 13

**Fall Recess:** October 28–November 5

**Reading Period/Make-up Lectures:** January 8–16

**Final Exam Period:** January 17–27