



### CHM 532: Mechanistic and Physical Organic Chemistry

*Abigail G. Doyle*  
*Robert R. 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*

#### Schedule/Classroom assignment:

Section	Time	Days	Room
L01	7:00 pm - 10:00 pm	M	Frick A57

### CHM 541/QCB 541: Chemical Biology II

*Ralph E. Kleiner*  
*Mohammad R. Seyedsayamdost*

The course provides an in depth treatment of protein chemistry, natural products biosynthesis, and biophysical chemistry.

**Reading List:** No textbooks required

#### Schedule/Classroom assignment:

Section	Time	Days	Room
L01	7:00 pm - 10:00 pm	W	McDonnell

### CHM 521: Organometallic Chemistry

*Bradley P. Carrow*  
*Abigail G. Doyle*

To familiarize the student with basic principles of structure and reactivity of transition metal organometallic chemistry.

#### Reading List:

John Hartwig, University (Science Books 2010)  
*Organotransition Metal Chemistry: From Bonding to Catalysis*

#### Schedule/Classroom assignment:

Section	Time	Days	Room
L01	7:00 pm - 10:00 pm	W	Frick A57

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**Contact for Registration:** Patti Wallack

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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:** February 6

**Spring Recess:** March 18-26

**Reading Period/Make-up Lectures:** May 8-16

**Final Exam Period:** May 17-27