Industrial Associates Program  
Course Offerings, Spring 2021

To register, contact:  
Regina Perry, Admin. Office Coordinator  
609-258-3900  
regina.perry@princeton.edu

GENERAL INFORMATION:  
Visitor Parking:  
Intersection of Faculty Road and Fitzrandolph Road, Lot 21

Campus Map:  
http://transportation.princeton.edu/guests_visitors/maps-and-directions

Important Dates:  
First Day of Classes: Monday, Feb. 1  
Spring Recess: Mar. 13-16  
Last Day of Classes: Tuesday, Apr. 27  
Reading Period: Apr. 28 – May 5  
Final Exam Period: May 8 – May 14

CHM 516 Biophysical Chemistry II  
Jannette Carey, V. Vandavasi  
Broad introduction to major contemporary techniques used to study structures, functions, and interactions of biological macromolecules, including quantitative theory of molecular interactions. Aims to convey to students with diverse backgrounds and interests the utility of various experimental methods for solving molecular problems. Emphasis is on applications, practical aspects, and experimental design, and on the strengths and limitations of individual methods and complementarities among them.  

Reading List:  
Cantor & Schimmel, Biophysical Chemistry - Parts I, II, & III  
Freifelder, Physical Biochemistry  
J.M. Berg & J.L. Tymoczko, Biochemistry

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<td>L01</td>
<td>07:00 pm - 10:00 pm</td>
<td>Tues</td>
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CHM 541 Chemical Biology II  
Mohamad R. Seyedsayamdost  
The course provides an in-depth treatment of protein chemistry, natural products biosynthesis, and biophysical chemistry.  

Reading List:  
No Textbooks Required

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<td>L01</td>
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CHM 536 Topics in Organic Chemistry: Methods for Complex Organic Synthesis  
David MacMillan, Abigail Doyle  
This course provides an overview of contemporary methods in synthetic organic chemistry for first year graduate students and advanced undergraduates. Special emphasis will be placed on understanding mechanisms, scope, limitations, and selectivities of some of the most important synthetic methodologies developed in the 21st century. Selected topics will include advances in cross coupling, olefin metathesis, pi acid catalysis, organocatalysis, photocatalysis, piallyl chemistry, hydrogenation, C-H activation and hydrogen-bonding catalysis.  

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

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