

List of ChBE Electives (2016-17) 3/21/16

Course Title	Undergraduate Students	Graduate Students
Fall, 2016		
Chem. Eng.-Nanoscale Systems	ChBE 4020	ChBE 6020
Bioprocess Engineering	ChBE 4310 ⁴	ChBE 6779
Chemical Product Design	ChBE 4535	ChBE 4535
Microfluidics & Bio Appl.	ChBE 4710 ⁴	ChBE 6710
Biocatalysis	ChBE 4760 ⁴	ChBE 6760
Polymer Science & Eng. I	ChBE 4775 ¹	ChBE 4775 ¹
Mech Behavior-Composites	ChBE 4791 ¹	
Nano Materials and Energy	ChBE 4801	ChBE 8801
Aerosol Chemistry and Air Quality	ChBE 4803	ChBE 8803
Pulp & Paper Manufacturing	ChBE 4803	ChBE 6741
Electrochemical Energy Storage & Conversion	ChBE 4803	ChBE 4803
Polymer Characterization	ChBE 6752 ^{1,2}	ChBE 6752 ¹
Spring, 2017		
Electrochemical Engineering		ChBE 6130 ²
Microcircuit Fabrication	ChBE 4050	ChBE 6050
Drug Design, Dev., & Delivery	ChBE 4765 ⁴	ChBE 6765
Polymer Science & Eng. I	ChBE 4775 ¹	ChBE 4775 ¹
Polymer Science & Eng. II	ChBE 4776 ¹	ChBE 4776 ¹
Composite Materials & Proc.	ChBE 4793 ¹	ChBE 4793 ¹
Protein Engineering	ChBE 4803 ⁴	ChBE 8803
Colloids and Surfaces	ChBE 4803	ChBE 8803
Energy Systems	ChBE 4803	ChBE 8803
Chem. Eng. in Materials Development and Production	ChBE 4803	ChBE 8803
Emerging Technologies for Forest Bioproducts	ChBE 4803	ChBE 8803
Tech. Leadership, Professionalism and Decision-making	ChBE 4803 ³	
Prep. & Reactions-Polymers	ChBE 6750 ^{1,2}	ChBE 6750 ¹

1 taught by non-ChBE faculty

2 undergrad ChBE students can take this course with consent of the instructor

3 can be used only as tech elective (not ChBE elective)

4 priority enrollment given to Biotechnology option students