

List of ChBE Electives (2020-21)

Updated 6/23/2020

Course Title	Undergraduate Students	Graduate Students
Summer 2020		
Polymer Science & Engineering I	CHBE 4775 ¹	CHBE 4775 ¹
Fall 2020		
Bioprocess Engineering	CHBE 4310 ^{3,4}	CHBE 6779
Chemical Product Design	CHBE 4535	CHBE 4535
Pulp & Paper Manufacturing	CHBE 4720	CHBE 6741
Data Analytics for Chemical Engineers	CHBE 4745	CHBE 6745
Biofluid Mechanics	CHBE 4757 ^{1,3}	
Electrochemical Storage	CHBE 4759	
Biocatalysis	CHBE 4760 ³	CHBE 6760
Polymer Science & Engineering I	CHBE 4775 ¹	CHBE 4775
Mech Behavior-Composites	CHBE 4791 ¹	
Nanoporous Materials	CHBE 4803	CHBE 8803
Fundamentals of Fracture Mechanics	CHBE 7772 ^{1,2}	CHBE 7772 ^{1,2}
Spring 2021 (tentative schedule)		
Microelectronics Fabrication	CHBE 4050	CHBE 6050
Complex Fluids	CHBE 4610	CHBE 6610
Emerging Technology in Forest Bioproducts	CHBE 4730	CHBE 8803
Fund of Sustainable Chemical Industry	CHBE 4743	CHBE 6743
Data-Driven Process Systems Engineering	CHBE 4746	CHBE 6746
Biofluid Mechanics	CHBE 4757 ^{1,3}	
Electrochemical Storage	CHBE 4759 ¹	
Drug Design, Dev., & Delivery	CHBE 4765 ³	CHBE 6765
Polymer Science & Engineering I	CHBE 4775 ¹	CHBE 4775 ¹
Polymer Science & Engineering II	CHBE 4776 ¹	CHBE 4776 ¹
Biosystems Analysis	CHBE 4782 ^{1,3}	
Composite Materials & Proc.	CHBE 4793 ¹	CHBE 4793 ¹
Biosurfaces	CHBE 4803	CHBE 8803
Prep. & Reactions-Polymers	CHBE 6750 ^{1,2}	CHBE 6750 ¹

Notes

- 1 Taught by non-ChBE faculty
- 2 Undergrad ChBE students can take this course with consent of the instructor
- 3 Priority enrollment given to Biotechnology option students.
- 4 Elective for Standard option; required course for Biotechnology option.