

Curriculum

□ Graduate Course

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Homework)	Semester	Remark
General Course	CC 500	Science Writing in English	3:0:3(4)	Spring or Fall	
	CC 510	Introduction to Computer Application	2:3:3(10)	Spring or Fall	
	CC 511	Probability and Statistics	2:3:3(6)	Spring or Fall	
	CC 512	Introduction to Materials and Engineering	3:0:3(6)	Spring or Fall	
	CC 513	Engineering Economy and Cost Analysis	3:0:3(6)	Fall	
	CC 522	Introduction to Instruments	2:3:3(8)	Fall	
	CC 530	Entrepreneurship and Business Strategies	3:0:3(6)	Fall	
Mandatory Major Course	PSE 501	Polymer Materials	3:0:3(3)	Spring	
	CBE 552	Polymer Processing	3:0:3(3)	Fall	
	CBE556	Structure and Properties of Macromolecules	3:0:3(3)	Spring	
	CBE554	Polymer Physics	3:0:3(3)	Spring	
	CBE 651	Multicomponent Polymer Materials	3:0:3(1)	Fall	
	CH 671	Organic Chemistry of High Polymers	3:0:3(3)	Spring or Fall	
Elective Major Course	PSE 511	Reactions of Polymers	3:0:3(3)	Fall	
	PSE 512	Surface and Interface Properties of Polymers	3:0:3(3)	Fall	
	CH522	Organic Synthesis I	3:0:3(3)	Spring	
	MAE 537	Optimal design of Composite Structures	3:0:3(6)	Spring	
	CH542	Organometallic Chemistry	3:0:3(3)	Fall	
	MS542	Nanoscale Surface Analysis	2:3:3(3)	Fall	
	MS544	Engineering of Soft Materials	3:0:3(3)	Fall	
	CBE 551	Polymer Rheology	3:0:3(3)	Spring or Fall	
	CBE 555	Biopolymer	3:0:3(3)	Fall	
	CBE573	Fuel Cell Processes and Materials	3:0:3(3)	Fall	
	BS 584	Novel Drug Delivery Systems	3:0:3(3)	Fall	
	MS613	Solid State Physics	3:0:3(3)	Fall	
	MS620	Optical Materials	3:0:3(3)	Spring	
	MS642	Electronic Packaging Technology	3:0:3(2)	Spring	
	IE 643	Design and Analysis of Experiments	3:1:3(4)	Fall	
	CBE 652	Polymer Characterization	3:0:3(3)	Spring	
	CBE 653	Mechanical Properties of Polymers	3:0:3(4)	Spring or Fall	*MAE633
	MS670	Sol-Gel Nano Materials and Process	3:0:3(3)	Fall	
	CH 672	Specialty Polymer Chemistry	3:0:3(3)	Spring or Fall	
	CH 673	Polymer Physical Chemistry	3:0:3(3)	Spring or Fall	
	CBE 682	Organic Nano-Structured Materials	3:0:3(3)	Fall	
	MS684	Principles of Semiconductor Devices	3:0:3(3)	Spring	
	PSE 711	Special Topics in Polymer Materials	3:0:3(3)	Spring or Fall	
	CBE 731	Polymer Fluid Dynamics	3:0:3(3)	Spring or Fall	
CBE 751	Advanced Rheology of Polymer	3:0:3(3)	Spring or Fall		
CH 773	Special Topics in Polymers Chemistry I	3:0:3(3)	Spring or Fall		
CBE 851	Special Topics in Polymer Engineering	3:0:3(3)	Spring or Fall		
Research	PSE 960	Thesis (Master Student)		Spring or Fall	
	PSE 966	Seminar (Master Student)	1:0:1	Spring or Fall	
	PSE 980	Thesis (Ph.D. Student)		Spring or Fall	
	PSE 986	Seminar (Ph.D. Student)	1:0:1	Spring or Fall	

※ * Substitute course

500-level courses are open to undergraduate students.