Western S Engineering

Chemical: General Chemical Engineering (Option A)

September 2019 (students who entered first year in September 2015 or earlier)

Year 2:			
Term A		NOTES:	
AM 2270a	Applied Math for Engineering II		
CBE 2206a	Introductory Industrial Organic Chemistry		
CBE 2214a	Engineering Thermodynamics		
CBE 2220a	Chemical Process Calculations		
CBE 2290a	Fundamentals of Biochemical and Environmental Engineering		
ES 2211F	Engineering Communications		
Term B			
AM 2277b	Applied Math Chemical and Civil Engineering III		
CBE 2207b	Applied Industrial Organic Chemistry		
CBE 2221b	Fluid Flow		
CBE 2224b	Chemical Eng. Thermodynamics		
CBE 2291b	Computational Methods for Engineering		
SS 2143b	Applied Statistics and Data Analysis for Engineers		
<u>Year 3:</u>			
Term A			
CBE 3315a	Reaction Engineering		
CBE 3318a	Introduction to Chemical Process Simulation		
CBE 3322a	Heat Transfer Operations		
CBE 3325a	Particulate Operations		
CBE 3395y	Chemical Engineering Lab		
One 0.5 Tech	nnical elective		
Term B			
CBE 3310b	Process Dynamics and Control		
CBE 3319b	Introduction to Plant Design and Safety		
CBE 3323b	Staged Operations	Technical Electiv	ve List:
CBE 3324b	Mass Transfer Operations		
CBE 3395y	Chemical Engineering Lab		ives may not be offered in a given academic
ECE 2208b	Electrical Measurements	year. Consult the De	partment for accurate listing.
One 0.5 Tech	nnical elective		Downstream Processing in
Year 4:		CBE 4404a/b	Pharmaceutical Manufacturing
Term A		CBE 4407a/b	Solid Waste Treatment
Bus 2299E	Pusinoss for Engineers	CBE 4409a/b	Wastewater Treatment
CBE 4497	Business for Engineers Chemical Process and Plant Design	CBE 4413a/b	Selected Topic in Chemical Engineering
	nnical elective	CBE 4415	Chemical Engineering Project
	inical elective taken from approved list	CBE 4417a/b	Catalytic Processes
ois non technical elective taken non approved ist		CBE 4417a/b	Industrial Multiphase Reactor Design
Term B		CBE 4420a/b	Computer Process Control
Bus 2299E	Business for Engineers	CBE 4421a/b	Introduction to Biomaterials Engineering
CBE 4497	Chemical Process and Plant Design	CBE 4422a/b	Nanobiotechnology
ES 4498G	Engineering Ethics, Sustainable Development and the Law	CBE 4423a/b	Tissue Engineering
Two 0.5 Tech	nnical elective [†]	CBE 4424a/b	Biosensor Principles and Applications
⁺ Accelerated Masters students can take a graduate course with special		CBE 4432a/b	Energy and Fuels Production Systems
		CBE 4463a/b	Water Pollution Design
permission from the Department Chair.		CBE 4485a/b	Energy & Society
		CBE 4493a/b	Polymer Engineering
		CEE 3362a/b	Drinking Water Quality and Treatment
		CEE 4405a/b	Air Pollution
		GPE 4484a/b	Green Fuels and Chemicals
		MME 4429a/b	Nuclear Engineering
		IVIIVIE 4429a/D	Nuclear Engineering