Western S Engineering

Integrated Engineering September 2017 (students who entered first year in September 2016)

September 2017 (students who entered first year in September 2016)			
Year 2:		NOTES:	
Term A			
AM 2270a	Applied Mathematics for Engineering II		
CEE 2202a	Mechanics of Materials		
ECE 2277a	Digital Logic Systems		
MSE 2214a	Thermodynamics I		
MME 2259a	Product Design and Development		
One 0.5 non-technical elective			
Term B			
AM 2276b	Applied Mathematics for Electrical and Mechanical		
	Engineering III		
CBE 2221b	Fluid Flow		
CBE 2291b	Computational Methods for Engineers		
ECE 2238b	Introduction to Electrical Engineering		
SS 2143b	Applied Statistics and Data Analysis for Engineers		
One 0.5 non-technical elective		Year 4 Options	:
Year 3:		Technical Elective Lis	.
Term A		rechnical Elective Lis	ia:
-	Engineering Innovation II, Managing the Innovation Dragoes	Some technical elect	ves may not be offered in a given academic
ES 3331a CBE 2220a	Engineering Innovation II: Managing the Innovation Process Chemical Process Calculations	year. Consult the department for accurate listing.	
CBE 3322a	Heat Transfer Operations	Chemical and Biochemical Engineering :	
CEE 2220a	Structural Theory and Design I	Chemical and Bit	Fundamentals of Biochemical and
ECE 3374a	Introduction to Electronics for Mechanical Engineering	CBE 2290a/b	Environmental Engineering
MSE 3301a	Materials Selection & Manufacturing Processes	CBE 3310a/b	Process Dynamics and Control
		CBE 3324a/b	Mass Transfer Operations
Term B		CBE 4409a/b	Wastewater Treatment
ES 3330b	Engineering Innovation I: New Venture Creation	CBE 4421a/b	Introduction to Biomaterials Engineering
CEE 2221b	Structural Theory and Design II	Civil and Environmental Engineering:	
MSE 2213b	Engineering Dynamics		Project Management and Engineering
MME 2285b	Engineering Experimentation	CEE 3348a/b	Cases
MSE 3360b	Finite Element Methods in Mechanical Engineering	CEE 3362a/b	Drinking Water Quality and Treatment
ES 4498G	Engineering Ethics, Sustainable Development and the Law	CEE 4405a/b	Air Pollution
			Systems Approach for Civil and
Year 4:		CEE 4418a/b	Environmental Engineering
Term A			Risk Analysis and Decision Making in
	Interdisciplinary Engineering Design Draiget	CEE 4458a/b	Engineering
ES 4499 ES 4480a	Interdisciplinary Engineering Design Project Engineering Innovation III: Engineering Leadership and	CEE 4465a/b	Environmental Design for Waste Disposal
L3 4400a	Corporate Entrepreneurship	CEE 4477a/b	Environmental Applications of
Three 0.5 tec	hnical electives		Nanotechnology
		Electrical and Computer Engineering:	
Term B		ECE 3349a/b	Introduction of VLSI
ES 4499	Interdisciplinary Engineering Design Project	ECE 3375a/b	Microprocessors and Microcomputers
ES 4499	Engineering Innovation IV: The Entrepreneurial Environment	ECE 4436a/b	Networking: Principles, Protocols, and
	hnical electives		Architecture
		ECE 4468a/b	Systems Optimization
The technical electives listed here are recommended technical electives from each department. Other courses may be taken if prerequisite requirements are satisfied.		SE 3314a/b	Computer Networks Applications
			Materials Engineering:
		MME 3381a/b	Kinematics and Dynamics of Machines
		MME 4452a/b	Robotics and Manufacturing Automation
		MME 4473a/b	Computer Integrated Manufacturing (CIM)
		MME 4487a/b	Mechatronic System Design
		MME 4492a/b	Production Management for Engineers