## Western S Engineering

## **Integrated Engineering**

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September 2019 (students who entered <i>first year</i> in September 2015 or earlier)			
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		
Bus 2257	Accounting and Business Analysis		
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	Year 4 Options	:
SS 2143b	Applied Statistics and Data Analysis for Engineers	-	
Bus 2257	Accounting and Business Analysis	Technical Elective Lis	st:
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Year 3:			ives may not be offered in a given academic partment for accurate listing.
Term A			sartment for accurate noting.
ES 3330a	Engineering Innovation I: Strategy and Business Economics	Chemical and Bio	ochemical Engineering :
CBE 2220a	Chemical Process Calculations	CBE 2290a/b	Fundamentals of Biochemical and
CBE 3322a	Heat Transfer Operations		Environmental Engineering
CEE 2220a	Structural Theory and Design I	CBE 3310a/b	Process Dynamics and Control
ECE 3374a	Introduction to Electronics for Mechanical Engineering	CBE 3324a/b	Mass Transfer Operations
MSE 3301a	Materials Selection & Manufacturing Processes	CBE 4409a/b	Wastewater Treatment
	Ũ	CBE 4421a/b	Introduction to Biomaterials Engineering
Term B		Civil and Environmental Engineering:	
ES 3331b	Engineering Innovation II: Marketing and Design Thinking	CEE 3348a/b	Project Management and Engineering
CEE 2221b	Structural Theory and Design II		Cases
MSE 2213b	Engineering Dynamics	CEE 3362a/b	Drinking Water Quality and Treatment
MME 2285b	Engineering Experimentation	CEE 4405a/b	Air Pollution
MSE 3360b	Finite Element Methods in Mechanical Engineering	CEE 4418a/b	Systems Approach for Civil and
ES 4498G	Engineering Ethics, Sustainable Development and the Law		Environmental Engineering
		CEE 4458a/b	Risk Analysis and Decision Making in
Year 4:			Engineering
		CEE 4465a/b	Environmental Design for Waste Disposal
Term A	later lie tellinen - Frains anina Destan Destat	CEE 4477a/b	Environmental Applications of
ES 4499	Interdisciplinary Engineering Design Project	Nanotechnology	
ES 4480a	Engineering Innovation III: Leadership and Corporate	Electrical and Computer Engineering:   ECE 3349a/b Introduction of VLSI	
Three 0.5 tec	Entrepreneurship hnical electives	ECE 3349a/b ECE 3375a/b	
111122 0.5 120			Microprocessors and Microcomputers Networking: Principles, Protocols, and
		ECE 4436a/b	Architecture
Term B		ECE 4468a/b	Systems Optimization
ES 4499	Interdisciplinary Engineering Design Project	SE 3314a/b	Computer Networks Applications
ES 4481b	Engineering Innovation IV: New Venture Creation		Materials Engineering:
Three 0.5 technical electives		MME 3381a/b	Kinematics and Dynamics of Machines
		MME 4452a/b	Robotics and Manufacturing Automation
The technical electives listed here are recommended technical electives from each department. Other courses may be taken if prerequisite requirements		MME 4473a/b	Computer Integrated Manufacturing (CIM)
		MME 4473a/b	Mechatronic System Design
are satisfied.		MME 4492a/b	Production Management for Engineers
			I readerion management for Engineers