## Western S Engineering

## **Computer Engineering: Electronic Devices for Ubiquitous Computing (Option A)**

**September 2020** (for students who entered first year in September 2019)

Year 2		NOTES:	
Term A			
-	Applied Mathematics for Engineering II	Non to shall al	ative e
AM 2270A	Applied Mathematics for Engineering II	Non-technical ele	
CS 1027A	Computer Science Fundamentals II		0 credits (one 1.0-credit or two 0.5-credit
ECE 2205A	Electric Circuits I	'	e 1000 level and one 0.5-credit course from
ECE 2240A	Electrical Laboratory	the 2000 (or high	er) level.
ECE 2277A	Digital Logic Systems		
Writ 2130F	Building Better (Communication) Bridges: Rhetoric &		
	Professional Communication for Engineers		
Term B			
AM 2276B	Applied Mathematics for Elec. & Mech. Engineering III		
ECE 2231B	Introduction to Electronics		
ECE 2233B	Circuits and Systems		
ECE 2242B	Principles of Design in Electrical Engineering		
ECE 3375B	Microprocessors and Microcomputers		
ECE 3380B	Advanced Digital Systems		
<u>Year 3</u>			
Term A			
CS 2211A	Software Tools and Systems Programming		
Math 2151A	Discrete Structures for Engineering		
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ECE 3330A	Control Systems		
ECE 3349A	Introduction of VLSI		
ECE 3389A	Computer System Design		
One 0.5 non-tee	chnical elective		
Term B			
CS 2210B	Data Structures and Algorithms		
	Data Structures and Algorithms		
ECE 2236B	Magnetic Circuits and Transmission Lines		
ECE 3331B	Introduction to Signal Processing		
ECE 3390B	Hardware/Software Co-Design		
SE 2203b	Software Design		
SS 2143B	Applied Statistics and Data Analysis for Engineers		
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VeenA			
<u>Year 4</u>		Technical Elective	
Term A			lectives may not be offered in a given
ECE 4415	Computer Engineering Design Project	academic year. C	onsult the Department for accurate listing.
ECE 4436A	Networking: Principles, Protocols & Architecture		
ECE 4437A	Communications Theory	ECE 3332A/B	Electric Machines
SE 3313A	Operating Systems for Software Engineering	ECE 3333A/B	Electric Power Systems I
	non-technical elective from approved list	ECE 3337A/B	Electronic Circuits
			Communication Electronics I
Une 0.5-credit l	echnical elective	ECE 3370A/B	
		ECE 4429A/B	Advanced Digital Signal Processing
Term B		ECE 4438A/B	Advanced Image Processing and Analysis
ECE 4415	Computer Engineering Design Project	ECE 4445A/B	Introduction to Digital Image Processing
ECE 4460B	Real-Time and Embedded Systems	ECE 4455A/B	Biomedical Systems Analysis
	•	ECE 4469A/B	Applied Control Systems
ES 4498G	Engineering Ethics, Sustainable Development & the	SE 4460 A//B	Machine Learning & Design
	Law		Maximum one of:
SE 3314B	Computer Networks Applications	CS 3319A/B	Databases I
One 0.5-credit technical elective			
One 0.5-credit non-technical elective from approved list		CS 3340A/B	Analysis of Algorithms I
		CS 3346A/B	Artificial Intelligence I

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