Western S Engineering

Electrical Engineering and Business (Option B)

September 2020 (for students who entered first year in September 2016)

Year 2		NOTES:	
Term A			
AM 2270A	Applied Mathematics for Engineering II	**1.5 HBA required courses:	
CS 1037A	Computer Science Fundamentals II		
ECE 2205A	Electric Circuits I	International Perspective Requirement: Business	
ECE 2240A	Electrical Laboratory	4505A/B.	
ECE 2277A	Digital Logic Systems	 Corporations and Society Requirement: 0.5-credit from 	
BUS 2257	Accounting & Business Analysis		ministration – Corporations and Society
			ng the academic year to satisfy this
Term B		requirement	
AM 2276B	Applied Mathematics for Elec. & Mech. Engineering III	•	
ECE 2231B	Introduction to Electronics	• Wanagerial /	Accounting Requirement: Business 4624A/B
ECE 2233B	Circuits and Systems		
ECE 2236B	Magnetic Circuits and Transmission Lines		
ECE 2241B	Electrical Laboratory II		
BUS 2257	Accounting & Business Analysis		
<u>Year 3:</u> HBA 1			
Year 4			
Term A			
AM 3415A	Applied Mathematics for Electrical Engineering II		
ECE 3330A	Control Systems	Technical Electives	
ECE 3332A	Electric Machines	Some technical electives may not be offered in a given	
ECE 3337A	Electronic Circuits	academic year. Co	onsult the Department for accurate listing.
SS 2141A	Applied Statistics and Data Analysis		
BUS 4569	Ivey Field Project	ECE 3349A/B	Introduction of VLSI
	-,,	ECE 4430A/B	Selected Topics in Electrical Engineering I
Term B		ECE 4431A/B	Selected Topics in Electrical Engineering II
ECE 3331B	Introduction to Signal Processing	ECE 4432A/B	Radiation and Propagation
ECE 3336B	Electromagnetic Theory	ECE 4433A/B	Digital Communications Systems
ECE 3370B	Communication Electronics I	ECE 4436A/B	Networking: Principles, Protocols &
ECE 3375B	Microprocessors and Microcomputers		Architecture
ECE 3399B	Principles and Practices of Design of Electronic Systems	ECE 4438A/B	Advanced Image Processing & Analysis
101 00000		ECE 4439A/B	Conventional, Renewable & Nuclear Energy
Year 5		ECE 4445A/B	Introduction to Digital Image Processing
Term A		ECE 4451A/B	Advanced Topics in Wireless
ECE 4416	Electrical/Computer Engineering Project		Communications
	Electrical/Computer Engineering Project	ECE 4455A/B	Biomedical Systems Analysis
ECE 4429A	Advanced Digital Signal Processing	ECE 4456A/B	Power Systems Protection Power Electronics
ECE 4437A	Communications Theory	ECE 4457A/B ECE 4460A/B	Real-Time and Embedded Systems
One 0.5-credit technical elective 1.5 HBA required courses**		ECE 4460A/B	Electric Power Systems II
1.5 HBA lequir		ECE 4464A/B ECE 4468A/B	Systems Optimization
T		ECE 4469A/B	Applied Control Systems
Term B		MME 4452A/B	Robotics and Manufacturing Automation
ECE 4416	Electrical/Computer Engineering Project	MME 4473A/B	Computer Integrated Manufacturing
ES 4498G	Engineering Ethics, Sustainable Development & the	MME 4473A/B	Fundamentals of MEMS
	Law	MME 4482A/B	Mechatronic System Design
Three 0.5-credit Business electives from 4000 level Business courses			, ,
		JL 4400 A/B	Machine Learning & Design
Three 0.5-cred	It Business electives from 4000 level Business courses	SE 4460 A/B	Machine Learning & Design