## Western S Engineering

## Computer Engineering: Electronic Devices for Ubiquitous Computing and Business (Option C)

**September 2022** (for students who entered first year in September 2020)

Tear ZNOTES.Term ANMM 2270ANMM 2270AApplied Mathematics for Engineering IICS 1037AComputer Science Fundamentals IIECE 2205AElectric Circuits IECE 2240AElectrical Laboratory IECE 2277ADigital Logic SystemsBUS 2257Accounting and Business AnalysisTerm BNMM 2276BNMM 2276BNMM 2276BApplied Mathematics for Elec. & Mech. Engineering IIIECE 2242BPrinciples of Design in Electrical EngineeringECE 3375BBUS 2257Accounting and Business AnalysisBUS 2257Accounting and Business Analysis	Year 2		NOTES:
NMM 2270AApplied Mathematics for Engineering IICS 1037AComputer Science Fundamentals IIECE 2205AElectric Circuits IECE 2240AElectrical Laboratory IECE 2277ADigital Logic SystemsBUS 2257Accounting and Business AnalysisTerm B			
<ul> <li>CS 1037A Computer Science Fundamentals II</li> <li>ECE 2205A Electric Circuits I</li> <li>ECE 2205A Electrical Laboratory I</li> <li>ECE 2240A Electrical Laboratory I</li> <li>ECE 2277A Digital Logic Systems</li> <li>BUS 2257 Accounting and Business Analysis</li> <li>International Perspective Requirement: Business 4505A/B.</li> <li>Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.</li> <li>ECE 2242B Principles of Design in Electrical Engineering ECE 3375B Microprocessors and Microcomputers ECE 3380B Advanced Digital Systems</li> </ul>	-	Applied Mathematics for Easting sting	
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<ul> <li>ECE 2277A Digital Logic Systems</li> <li>BUS 2257 Accounting and Business Analysis</li> <li>International Perspective Requirement: Business</li> <li>4505A/B.</li> <li>Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.</li> <li>ECE 2231B Introduction to Electronics</li> <li>ECE 2242B Principles of Design in Electrical Engineering ECE 3375B Microprocessors and Microcomputers</li> <li>ECE 3380B Advanced Digital Systems</li> <li>International Perspective Requirement: Business 4505A/B.</li> <li>Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.</li> <li>Managerial Accounting Requirement: Business 4624A/B</li> </ul>			
ECE 22/1/ADigital Logic SystemsBUS 2257Accounting and Business AnalysisTerm BCorporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.NMM 2276BApplied Mathematics for Elec. & Mech. Engineering III ECE 2231BECE 2231BIntroduction to Electronics ECE 3375BECE 3375BMicroprocessors and Microcomputers ECE 3380BECE 3380BAdvanced Digital Systems		-	International Perspective Requirement: Business
<ul> <li>Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.</li> <li>Corporations and Society Requirement: 0.5-credit from Business Administration – Corporations and Society offered during the academic year to satisfy this requirement.</li> <li>ECE 2242B Principles of Design in Electrical Engineering ECE 3375B Microprocessors and Microcomputers ECE 3380B Advanced Digital Systems</li> </ul>			
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BUS 2257 Accounting and Business Analysis			
	BUS 2257	Accounting and Business Analysis	
<u>Year 3:</u> HBA 1	Year 3: HBA 1		
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Year 4	<u>Year 4</u>		
Term A	Term A		
SE 2205A Algorithms & Data Structure for Object-Oriented	SE 2205A	Algorithms & Data Structure for Object-Oriented	
Design		Design	
ECE 3330A Control Systems	ECE 3330A	Control Systems	
ECE 3349A Introduction of VLSI	ECE 3349A	Introduction of VLSI	
ECE 3389A Computer System Design	ECE 3389A	Computer System Design	
Math 2151A Discrete Structures for Engineering	Math 2151A	Discrete Structures for Engineering	
SE 2203A Software Design	SE 2203A	Software Design	
BUS 4569 Ivey Field Project	BUS 4569	Ivey Field Project	
Term B			
CS 2211B Software Tools and Systems Programming			
ECE 2236B Magnetic Circuits and Transmission Lines		-	
ECE 3331B Introduction to Signal Processing			
ECE 3390B Hardware/Software Co-Design		-	
SS 2143B Applied Statistics and Data Analysis for Engineers	SS 2143B	Applied Statistics and Data Analysis for Engineers	
Year 5	Year 5		
Term A			
		Computer Engineering Design Project	
ECE 4415Computer Engineering Design ProjectECE 4436ANetworking: Principles, Protocols & Architecture			
ECE 4436A Networking: Principles, Protocols & Architecture ECE 4437A Communications Theory			
SE 3313A Operating Systems for Software Engineering			
1.5 HBA required courses**			
Term B			
ECE 4415 Computer Engineering Design Project			
ECE 4460B Real-Time and Embedded Systems		•	
ELI 4110G Engineering Ethics, Sustainable Development & the	ELI 4110G		
Law Three 0.5-credit Business electives from the 4000-level Business courses			