Western S Engineering

Electrical Engineering: Power Systems (Option E)

September 2020 (for students who entered first year in September 2017)

Year 2		NOTES:	
Term A			
AM 2270A	Applied Mathematics for Engineering II	Non-technical ele	ectives:
CS 1037A	Computer Science Fundamentals II) 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 2277A	Digital Logic Systems	the 2000 (or high	
ECE 2240A	Electrical Laboratory		
Writ 2130F	Building Better (Communication) Bridges: Rhetoric &		
Wint 21501	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 2236B	Magnetic Circuits and Transmission Lines		
ECE 2242B	Principles of Design in Electrical Engineering		
MME 2234B	Heat Transfer and Dynamics		
Year 3			
Term A			
AM 3415A	Applied Math for Electrical Engineering		
ECE 3330A	Control Systems		
ECE 3330A ECE 3332A	Electric Machines		
ECE 3332A ECE 3337A	Electronic Circuits		
SS 2141A	Applied Probability and Statistics for Engineers		
One 0 5-credit	non-technical elective from annroved list (either term)		
One 0.5-credit	non-technical elective from approved list (either term)		
One 0.5-credit			
	non-technical elective from approved list (either term) Introduction to Signal Processing		
Term B		Technical Elective	es
Term B ECE 3331B	Introduction to Signal Processing		
Term B ECE 3331B ECE 3333B	Introduction to Signal Processing Electric Power Systems I	Some technical e	lectives may not be offered in a given
Term B ECE 3331B ECE 3333B ECE 3336B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory	Some technical e	
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I	Some technical el academic year. Co	lectives may not be offered in a given
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers	Some technical el academic year. Co ECE 3349A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems	Some technical el academic year. Ce ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4431A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3375B ECE 3399B Year 4 Term A ECE 4416	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project	Some technical el academic year. Ce ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4431A/B ECE 4432A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3379B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing	Some technical et academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory	Some technical el academic year. Ce ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4431A/B ECE 4432A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3379B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B ECE 4436A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A ECE 4464A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II	Some technical et academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4438A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A ECE 4464A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics	Some technical et academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4438A/B ECE 4445A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4457A ECE 4457A ECE 4464A One 0.5-credit	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II	Some technical et academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4438A/B	IncompositionIntroduction to VLSIAdvanced Digital SystemsSelected Topics in Electrical Engineering ISelected Topics in Electrical Engineering IIRadiation and PropagationDigital Communications SystemsNetworking: Principles, Protocols and ArchitectureAdvanced Image Processing & AnalysisIntroduction to Digital Image Processing Advanced Topics in Wireless
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A ECE 4464A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II	Some technical et academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4433A/B ECE 4433A/B ECE 4438A/B ECE 4445A/B ECE 4445A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4457A ECE 4457A ECE 4464A One 0.5-credit	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4416 ECE 4429A ECE 4457A ECE 4457A ECE 4464A One 0.5-credit Term B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B ECE 4455A/B ECE 4460A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4457A ECE 4464A One 0.5-credit Term B ECE 4416	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4438A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B ECE 4460A/B ECE 4468A/B	Introduction to VLSIAdvanced Digital SystemsSelected Topics in Electrical Engineering ISelected Topics in Electrical Engineering IIRadiation and PropagationDigital Communications SystemsNetworking: Principles, Protocols and ArchitectureAdvanced Image Processing & AnalysisIntroduction to Digital Image Processing Biomedical Systems AnalysisBiomedical Systems AnalysisReal-Time Embedded Systems
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A ECE 4457A ECE 4457A ECE 4464A One 0.5-credit Term B ECE 4416 ECE 4439B	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project Conventional, Renewable & Nuclear Energy	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4436A/B ECE 4436A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B ECE 4460A/B ECE 4469A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems Systems Optimization Applied Control Systems
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3370B ECE 3379B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4437A ECE 4457A ECE 4457A ECE 4457A ECE 4457A ECE 4457A ECE 4457A ECE 4457A ECE 4457A	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project Conventional, Renewable & Nuclear Energy Power Systems Protection	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4438A/B ECE 4438A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B ECE 4460A/B ECE 4469A/B ECE 4469A/B MME 4452A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems Systems Optimization Applied Control Systems Robotics and Manufacturing Automation
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4457A ECE 4457A ECE 4464A One 0.5-credit Term B ECE 4416 ECE 4439B ECE 4439B ECE 4439B ECE 4456B ES 4498G	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project Conventional, Renewable & Nuclear Energy Power Systems Protection Engineering Ethics, Sustainable Development & the Law	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4436A/B ECE 4436A/B ECE 4455A/B ECE 4455A/B ECE 4460A/B ECE 4460A/B ECE 4469A/B MME 4452A/B MME 4473A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems Systems Optimization Applied Control Systems Robotics and Manufacturing Automation Computer Integrated Manufacturing
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3370B ECE 3379B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4457A ECE 45	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project Conventional, Renewable & Nuclear Energy Power Systems Protection Engineering Ethics, Sustainable Development & the Law non-technical elective from approved list	Some technical el academic year. Cu ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4431A/B ECE 4432A/B ECE 4433A/B ECE 4433A/B ECE 4436A/B ECE 4445A/B ECE 4445A/B ECE 4455A/B ECE 4460A/B ECE 4469A/B ECE 4469A/B MME 4452A/B MME 4473A/B MME 4482A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems Systems Optimization Applied Control Systems Robotics and Manufacturing Automation Computer Integrated Manufacturing Fundamentals of MEMS
Term B ECE 3331B ECE 3333B ECE 3336B ECE 3370B ECE 3370B ECE 3375B ECE 3399B Year 4 Term A ECE 4416 ECE 4429A ECE 4429A ECE 4437A ECE 4457A ECE 4	Introduction to Signal Processing Electric Power Systems I Electromagnetic Theory Communication Electronics I Microprocessors and Microcomputers Principles and Practices of Design of Electronic Systems Electrical/Computer Engineering Project Advanced Digital Signal Processing Communications Theory Power Electronics Electric Power Systems II non-technical elective from approved list Electrical/Computer Engineering Project Conventional, Renewable & Nuclear Energy Power Systems Protection Engineering Ethics, Sustainable Development & the Law	Some technical el academic year. Co ECE 3349A/B ECE 3380A/B ECE 4430A/B ECE 4430A/B ECE 4432A/B ECE 4432A/B ECE 4433A/B ECE 4436A/B ECE 4436A/B ECE 4455A/B ECE 4455A/B ECE 4460A/B ECE 4460A/B ECE 4469A/B MME 4452A/B MME 4473A/B	lectives may not be offered in a given onsult the Department for accurate listing. Introduction to VLSI Advanced Digital Systems Selected Topics in Electrical Engineering I Selected Topics in Electrical Engineering II Radiation and Propagation Digital Communications Systems Networking: Principles, Protocols and Architecture Advanced Image Processing & Analysis Introduction to Digital Image Processing Advanced Topics in Wireless Communications Biomedical Systems Analysis Real-Time Embedded Systems Systems Optimization Applied Control Systems Robotics and Manufacturing Automation Computer Integrated Manufacturing

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