

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

Suggested Senior Elective Packages*

PACKAGE A:	BIOMEDICAL ENGINEERING	UNITS
ECE 501	Intro to Biomedical Engineering	3
ECE 503	Biomedical Instrumentation	3
ECE 425/L	Microprocessor Systems and Lab	3,1
ECE 440/L	Electronics II and Lab	3,1

Select an additional (4) units from ECE Senior Electives with the approval of faculty advisor

PACKAGE B:	COMMUNICATION ENGINEERING	
ECE 440/L	Electronics II and Lab	3,1
ECE 451/L	Real-time Digital Signal Processing and Lab	2,1
ECE 460/L	Intro to Communication Systems and Lab	3,1
ECE 561/L	Digital Communications Systems and Lab	3,1
ECE 562	Data Communication Network	3

PACKAGE C:	CONTROL ENGINEERING	
ECE 440/L	Electronics II and Lab	3,1
ECE 480L	Fundamentals of Controls Systems Lab	1
ECE 580	Digital Control Systems	3
ECE 425/L	Microprocessor Systems and Lab	3,1
ECE 581	Fuzzy Control	3

Select an additional (3) units from ECE Senior Electives with the approval of faculty advisor

PACKAGE D:	DIGITAL SYSTEM DESIGN	UNITS
ECE 420	Digital Systems Design w/Programmable Logic	3
ECE 422	Design of Digital Computers	3
ECE 425/L	Microprocessor Systems and Lab	3,1
ECE 442/L	Digital Electronics and Lab	3,1
ECE 524/L	FPGA/ASIC Design Methodology/Optimization Using VHDL and Lab	3,1
ECE 525/L	System on a Chip and Lab	3,1
ECE 526/L	Verilog HDL: Modeling, Simulation & Synthesis and Lab	3,1
ECE 527/L	Application Specific Integrated Circuit Development and Lab	3,1

PACKAGE E:	ELECTRONICS and SOLID STATE ENGINEERING	
ECE 440/L	Electronics II and Lab	3,1
ECE 442/L	Digital Electronics and Lab	3,1
ECE 445	Intro to Solid State Devices	3
ECE 443/L	Pulse & Waveshaping Circuit Design and Lab	3,1
ECE 545	Solid State Devices	3
ECE 546	Very Large Scale Integrated Circuit Design	3

PACKAGE F:	MICROWAVE/ANTENNA ENGINEERING	
ECE 370L	Electromagnetic Fields and Waves I Lab	1
ECE 440/L	Electronics II and Lab	3,1
ECE 460/L	Intro to Communication Systems and Lab	3,1
ECE 471	Electromagnetic Fields & Waves II	3
ECE 572/L	RF and Microwave Active Circuit Design and Lab	3,1
ECE 578	Photonics	3

PACKAGE G:	ELECTRICAL POWER SYSTEMS ENGINEERING	UNITS
ECE 410/L	Electrical Machines and Energy Conversion and Lab	3,1
ECE 411	Electric Power Systems	3
ECE 412	Power Electronics	3
ECE 440/L	Electronics II and Lab	3,1

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