EECE Spring 2025: Tentative Courses Offered

Updated 05/13/24

<u>Undergraduate Electives</u>

Undergraduate Computer Engineering Electives

Area	Course Number	Name of Course
Hardware	COEN 4790	Internet of Things & Tiny ML
	EECE 4410	Introduction to Device Fabrication
Software	COEN 4690	Database Programming
Intelligent Systems	EECE 4520	Digital Image Processing

Undergraduate Electrical Engineering Electives

Area	Course Number	Name of Course
Electronic Devices and Systems	EECE 4410	Introduction to Device Fabrication
	ELEN 4440	MEMS and Nanotechnology
Signals, Systems and Control	ELEN 4310	Control Systems
Electromagnetic Fields and Communications	ELEN 4100	Transmission Lines and Electromagnetic Waves
Power and Energy	ELEN 3210	Electric Drives
	ELEN 4220	Power Electronics for Renewable Energy Systems
	ELEN 4230	Renewable and Legacy Electric Energy Systems Analysis
Computer Hardware and Software	COEN 4790	Internet of Things & Tiny ML
	EECE 4520	Digital Image Processing

Undergraduate Required Course

Undergraduate Computer Engineering Required Courses

Course Number	Name of Course
EECE 1210	Introduction to EECE 2
EECE 1610	Introduction to Programming
EECE 2030	Digital Electronics
COEN 2610	Software Methodologies
COEN 2710	Microprocessors
COEN 4800	Networks and Security
COEN 4998	Senior Design Project

Undergraduate Electrical Engineering Required Courses

Course Number	Name of Course
EECE 1210	Introduction to EECE 2
EECE 1610	Introduction to Programming
ELEN 2020	Electric Circuits 2
EECE 2030	Digital Electronics
EECE 2035	Circuits Laboratory 2
ELEN 2040	Engineering Systems
ELEN 3025	Electrical Instrumentation Laboratory
ELEN 3030	Analog Electronics
ELEN 4998	Senior Design Project

Other

Course Number	Name of Course
ELEN 3001	Electric Circuits for Non-majors

Graduate Courses

Course Number	Name of Course
EECE 5100	Transmission Lines and Electromagnetic Waves
EECE 5220	Power Electronics for Renewable Energy Systems
EECE 5230	Renewable and Legacy Electric Energy Systems Analysis
EECE 5310	Control Systems

EECE 5410	Introduction to Device Fabrication
EECE 5440	MEMS and Nanotechnology
EECE 5520	Digital Image Processing
EECE 5690	Database Programming
EECE 5790	Internet of Things & Tiny ML
EECE 5800	Networks and Security
EECE 6020	Probability and Random Processes in Engineering
EECE 6120	Electromagnetic Fields
EECE 6220	Advanced Concepts in the Design and Modeling of Electric Machines and Drives
EECE 6810	Algorithm Analysis and Applications
EECE 6931	Renewable Energy: Policy, Technology, and Sustain.
EECE 6952	Department Colloquium