EECE Fall 2024: Tentative Courses Offered

Updated 11/3/23

Undergraduate Electives

Undergraduate Computer Engineering Electives

Area	Course Number	Name of Course
Hardware	COEN 4730	Computer Architecture
	EECE 4510	Digital Signal Processing (depth only)
Software	COEN 4650	Introduction to Algorithms
	COEN 4830	Computer Graphics
Intelligent Systems	COEN 4650	Introduction to Algorithms
	COEN 4850	Introduction to Intelligent Systems
	COEN 4890	Applications of Artificial Intelligence (depth only)

Undergraduate Electrical Engineering Electives

Area	Course Number	Name of Course
Electronic Devices and Systems	ELEN 4430	Physical Principles of Solid State Devices
	ELEN 4460	Sensor Devices
	ELEN 4490	Developments in Devices: Introduction to MEMS
Signals, Systems and Control	ELEN 4320	Digital Control Systems
	EECE 4510	Digital Signal Processing
Electromagnetic Fields and Communications	ELEN 4110	Microwave Engineering
Power and Energy	ELEN 4240	Protection and Monitoring of Electric Energy Systems
	ELEN 4290	Dev. Energy/Power: Sustainable Energy Conversion

Computer Hardware and Software	COEN 4830	Computer Graphics
	COEN 4850	Introduction to Intelligent Systems
	COEN 4720	Embedded Systems

Undergraduate Required Course

Undergraduate Computer Engineering Required Courses

Course Number	Name of Course
EECE 1200	Intro to EECE 1
EECE 2001	Fundamentals of Electric Circuits
EECE 2015	Circuits Lab 1
EECE 3015	Digital Lab
ELEN 3020	Linear Systems
COEN 4720	Embedded Systems
COEN 4920	Senior Design 1

Undergraduate Electrical Engineering Required Courses

Course Number	Name of Course
EECE 1200	Intro to EECE 1
EECE 2010	Electric Circuits
EECE 2015	Circuits Lab 1
EECE 3010	Electronic Devices
EECE 3015	Digital Lab
ELEN 3020	Linear Systems
ELEN 3035	Analog Lab
ELEN 3110	Electromagnetic Fields 1
ELEN 4920	Senior Design 1

Graduate Courses

Course Number	Name of Course
EECE 5240	Protection and Monitoring of Electric Energy Systems
EECE 5290	Dev. Energy/Power: Sustainable Energy Conversion
EECE 5110	Microwave Engineering
EECE 5320	Digital Control Systems
EECE 5430	Physical Principles of Solid State Devices

EECE 5460	Sensor Devices
EECE 5490	Developments in Devices: Introduction to MEMS
EECE 5510	Digital Signal Processing
EECE 5720	Embedded Systems
EECE 5730	Computer Architecture
EECE 5830	Computer Graphics
EECE 5850	Introduction to Intelligent Systems
EECE 5890	Applications of Artificial Intelligence
EECE 6010	Advanced Engineering Mathematics
EECE 6310	Modern Control Theory
EECE 6822	Machine Learning
EECE 6932	Advanced Topics: Big Data Analysis
EECE 6952	Department Colloquium