

EECE Fall 2025: Courses Offered

Updated 03/04/25

Undergraduate Electives**Undergraduate Computer Engineering Electives**

Area	Course Number	Name of Course
<u>Hardware</u>	COEN 4790	Computer Vision
	EECE 4510	Digital Signal Processing (depth only)
<u>Software</u>	COEN 4650	Introduction to Algorithms
	COEN 4690	Database Design & Implementation
	COEN 4830	Computer Graphics
	EECE 4520	Digital Image Processing
<u>Intelligent Systems</u>	COEN 4650	Introduction to Algorithms
	COEN 4870	Evolutionary Computation

Undergraduate Electrical Engineering Electives

Area	Course Number	Name of Course
<u>Electronic Devices and Systems</u>	ELEN 4460	Sensor Devices
<u>Signals, Systems and Control</u>	ELEN 4310	Control Systems
	EECE 4510	Digital Signal Processing
	EECE 4520	Digital Image Processing
<u>Electromagnetic Fields and Communications</u>	ELEN 4130	Antenna Theory and Design
<u>Power and Energy</u>	ELEN 4210	Design and Analysis of Electric Motor-Drive Systems
	ELEN 4240	Protection and Monitoring of Electric Energy Systems
	ELEN 4290	Dev. Energy/Power: Sustainable Energy Conversion
<u>Computer Hardware and Software</u>	COEN 4830	Computer Graphics
	COEN 4720	Embedded Systems

COEN 4870 Evolutionary Computation
 EECE 4520 Digital Image Processing

Undergraduate Required Course

Undergraduate Computer Engineering Required Courses

<u>Course Number</u>	<u>Name of Course</u>
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

<u>Course Number</u>	<u>Name of Course</u>
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

<u>Course Number</u>	<u>Name of Course</u>
EECE 5130	Antenna Theory and Design
EECE 5210	Design and Analysis of Electric Motor-Drive Systems
EECE 5240	Protection and Monitoring of Electric Energy Systems
EECE 5290	Dev. Energy/Power: Sustainable Energy Conversion
EECE 5310	Control Systems
EECE 5460	Sensor Devices
EECE 5510	Digital Signal Processing

EECE 5520	Digital Image Processing
EECE 5650	Introduction to Algorithms
EECE 5690	Database Design & Implementation
EECE 5790	Computer Vision
EECE 5830	Computer Graphics
EECE 5870	Evolutionary Computation
EECE 6010	Advanced Engineering Mathematics
EECE 6310	Modern Control Theory
EECE 6822	Machine Learning
EECE 6840	Neural Networks and Neural Computing
EECE 6932	Advanced Topics: Digital Communications
EECE 6952	Department Colloquium