

EECE Fall 2023: Tentative Courses Offered

Updated 3/14/23

Undergraduate Electives

Undergraduate Computer Engineering Electives

<u>Area</u>	<u>Course Number</u>	<u>Name of Course</u>
<u>Hardware</u>	COEN 4730	Computer Architecture
	EECE 4510	Digital Signal Processing (depth only)
<u>Software</u>	COEN 4690	Computer Software
	COEN 4830	Computer Graphics
<u>Intelligent Systems</u>	COEN 4870	Evolutionary Computation
	COEN 4890	Artificial Intelligence for Industrial Applications; (depth only)

Undergraduate Electrical Engineering Electives

<u>Area</u>	<u>Course Number</u>	<u>Name of Course</u>
<u>Electronic Devices and Systems</u>	ELEN 4430	Physical Principles of Solid State Devices
	ELEN 4460	Sensor Devices
	ELEN 4490	Developments in Devices
<u>Signals, Systems and Control</u>	ELEN 4390	Developments in Control
	EECE 4510	Digital Signal Processing
<u>Electromagnetic Fields and Communications</u>	EECE 4590	Digital Signal Processing
<u>Power and Energy</u>	ELEN 4210	Design & Analysis of Electric Motor-Drive Systems
	ELEN 4240	Protection and Monitoring of Electric Energy Systems
	ELEN 4290	Dev. Energy/Power: Sustainable Energy Conversion

Computer Hardware and Software

COEN 4730	Computer Architecture
COEN 4870	Evolutionary Computation
COEN 4720	Embedded Systems

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 2010	Electric Circuits
EECE 2015	Circuits Lab 1
EECE 3010	Electronic Devices
EECE 3015	Digital Lab
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>
ELEN 5210	Design & Analysis of Electric Motor-Drive Systems
EECE 5240	Protection and Monitoring of Electric Energy Systems
EECE 5390	Developments in Control

EECE 5430	Physical Principles of Solid State Devices
EECE 5460	Sensor Devices
EECE 5490	Developments in Devices
EECE 5510	Digital Signal Processing
EECE 5690	Computer Software
EECE 5830	Computer Graphics
EECE 5870	Evolutionary Computation
EECE 5890	Artificial Intelligence for Industrial Applications
EECE 6010	Advanced Engineering Mathematics
EECE 6310	Modern Control Theory
EECE 6810	Algorithm Analysis and Applications
EECE 6952	Department Colloquium