

EECE Spring 2022: Tentative Courses Offered
1/7/2021

Undergraduate Electives

Undergraduate Computer Engineering Electives

Area	Course Number	Name of Course
<u>Hardware</u>	EECE 4740	Advanced VHDL and FPGA Design
<u>Software</u>	COEN 4650	Introduction to Algorithms
	COEN 4690	Computer Networks
	COEN 4840 (depth only)	Computer Security
	COEN 4860	Intro
<u>Intelligent Systems</u>	COEN 4650	Introduction to Algorithms
	COEN 4840 (depth only)	Computer Security
<u>Technical Elective</u>	COEN 4890	Industrial AI: Technologies and Applications

Undergraduate Electrical Engineering Electives

Area	Course Number	Name of Course
<u>Electronic Devices and Systems</u>	ELEN 4490	Developments in Devices
<u>Signals, Systems and Control</u>	ELEN 4310	Control Systems
	ELEN 4560	Comm Systems
<u>Electromagnetic Fields and Communications</u>	ELEN 4110	Microwave Engineering
	ELEN 4550	Communication Systems
	ELEN 3120	Electromagnetic Fields 2
<u>Power and Energy</u>	ELEN 3210	Electric Drives
	ELEN 4220	Power Electronics

Computer Hardware and Software

COEN 4710	Computer Hardware
COEN 4860	Intro
COEN 4820	Operating System Networking

Undergraduate Required Courses**Undergraduate Computer Engineering Required Courses**

<u>Course Number</u>	<u>Name of Course</u>
EECE 1610	Computer Programming
EECE 1210	Intro to EECE 2
COEN 2020	Circuits 2
EECE 2030	Digital Electronics
EECE 2035	Circuits Lab 2
COEN 2610	Software Methodologies
COEN 4710	Computer Hardware
COSC 3250	Operating Systems and Networking
COEN 4998	Senior Design 2

Undergraduate Electrical Engineering Required Courses

<u>Course Number</u>	<u>Name of Course</u>
EECE 1610	Computer Programming
EECE 1210	Intro to EECE 2
ELEN 2020	Circuits 2
EECE 2030	Digital Electronics
EECE 2035	Circuits Lab 2
ELEN 2040	Engineering Systems
ELEN 3025	Instrumentation Lab
ELEN 3030	Analog Electronics
ELEN 4998	Senior Design 2

Other Courses

<u>Course Number</u>	<u>Name of Course</u>
ELEN 3001	Electric Circuits and Machinery

Graduate Courses

<u>Course Number</u>	<u>Name of Course</u>
EECE 5110	Microwave Engineering
EECE 5310	Control Systems
EECE 5490	Developments in Devices
EECE 5650	Introduction to Algorithms
EECE 5690	Computer Networks
EECE 5710	Computer Hardware
EECE 5740	Advanced VHDL and FPGA Design
EECE 5840	Computer Security
EECE 6020	Probability Stochastic Process
EECE 6120	Fields
EECE 6220	Electric Machine Learning and Drives
EECE 6320	Optimal Control
EECE 6340	Stock Systems
EECE 6330	Nonlinear and Adaptive Control
EECE 6530	Signal Processing
EECE 6822	Machine Learning
EECE 6931	Energy Law
EECE 6932	Advanced Topics: MEMs
EECE 6952	Department Colloquium