EECE Spring 2024 - FINAL Courses Offered

Last update Oct 25, 2023

Undergraduate Electives

Undergraduate Computer Engineering Electives

Area	Course Number	Name of Course
Hardware	EECE 4410	Introduction to Device Fabrication
	COEN 4790	Developments in Computer Hardware: IoT & Tiny ML
	ELEN 3025 (depth only)	Electrical Instrumentation Laboratory
	ELEN 3030 (depth only)	Analog Electronics
Software	COEN 4650	Introduction to Algorithms
	COEN 4840 (depth only)	Computer Security
Intelligent Systems	COEN 4650	Introduction to Algorithms
	COEN 4840 (depth only)	Computer Security
	COEN 4890 (depth only)	Developments in Intelligent Systems: Applications of Machine Learning & AI

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 4560	Communication Systems
Electromagnetic Fields and Communications	ELEN 4560	Communication Systems
	ELEN 4100	Transmission Lines and Electromagnetic Waves *New Course*
Power and Energy	ELEN 3210	Electric Drives
	ELEN 4220	Power Electronics for Renewables
	ELEN 4230	Power Systems for Renewables
Computer Hardware and Software	COEN 4710	Computer Hardware
	COEN 4840	Computer Security

Undergraduate Required Courses

Undergraduate Computer Engineering Required Courses

Course Number	Name of Course
COEN 2610	Software Methodologies
COEN 2710	Microprocessors
COEN 4710	Computer Hardware
COEN 4998	Senior Design 2
EECE 1210	Introduction to EECE 2
EECE 1610	Introduction to Computer Programming
EECE 2030	Digital Electronics

Undergraduate Electrical Engineering Required Courses

Course Number	Name of Course
EECE 1210	Introduction to EECE 2
EECE 1610	Introduction to Computer 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 2

Other Courses

Course Number	Name of Course
ELEN 3001	Electric Circuits

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 5410	Introduction to Device Fabrication
EECE 5440	MEMS and Nanotechnology
EECE 5560	Introduction to Communication Systems
EECE 5650	Introduction to Algorithms
EECE 5840	Computer Security
EECE 5890	Developments in Computing: Applications of Machine Learning & AI
EECE 6020	Probability and Random Processes in Engineering
EECE 6320	Optimal Control
EECE 6931	Topics: Renewable Energy; Policy, Technology, and Sustainability
EECE 6932	Advanced Topics: Advanced Probability for Engineers
EECE 6952	Department Colloquium