

EECE Fall 2021: Courses Offered

For a complete description of the courses log in to checkmarq
<https://checkmarq.mu.edu/>

April 9, 2021

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>	EECE 4520	Digital Image Processing
	COEN 4830	Computer Graphics
<u>Intelligent Systems</u>	COEN 4870	Evolutionary Computation
	COEN 4890	Artificial Intelligence (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 4410	Introduction to Fabrication
<u>Signals, Systems and Control</u>	ELEN 4320	Digital Control Systems
	EECE 4510	Digital Signal Processing
	ELEN 4550	Optimization

Electromagnetic Fields and Communications

ELEN 4510	Digital Signal Processing
ELEN 4570	Wireless Communications
ELEN 4130	Antennas

Power and Energy

ELEN 4210	Design and Analysis of Electric Motor-Drive Systems
ELEN 4290	Dev. Power & Energy
ELEN 4290	Dev. Energy/Power: Sustainable Energy Conversion

Computer Hardware and Software

COEN 4730	Computer Architecture
COEN 4870	Evolutionary Computation
COEN 4720	Embedded Systems
COEN 4830	Computer Graphics
COEN 4890	Artificial Intelligence (depth only)

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

<u>Course Number</u>	<u>Name of Course</u>
EECE 1200	Intro to EECE 1
EECE 2010	Circuits 1
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	Circuits 1
EECE 2015	Circuits Lab 1
EECE 3010	Electronic Devices
EECE 3015	Digital Lab

EECE 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 5210	Design and Analysis of Electric Motor-Drive Systems
EECE 5290	Dev. Power & Energy
ELEN 5290	Dev. Energy/Power: Sustainable Energy Conversion
EECE 5430	Physical Principles of Solid State Devices
EECE 5460	Sensor Devices
EECE 5410	Introduction to Fabrication
EECE 5510	Digital Signal Processing
EECE 5520	Digital Image Processing
EECE 5550	Optimization
EECE 5570	Wireless Communications
EECE 5130	Antennas
EECE 5320	Digital Control Systems
EECE 5730	Computer Architecture
EECE 5830	Computer Graphics
EECE 5870	Evolutionary Computation
EECE 6010	Advanced Engineering Mathematics
EECE 6210	Advanced Machines & Drives
EECE 6310	Modern Control Theory
EECE 6810	Algorithm Analysis and Applications
EECE 6932	Advanced Probability for Engineers
EECE 6952	Department Colloquium