

EECE Fall 2022: Tentative Courses Offered
December 15, 2020

Undergraduate Electives

Undergraduate Computer Engineering Electives

| Area | Course Number | Name of Course |
|-----------------------------------|----------------------|---|
| <u>Hardware</u> | COEN 4790 | VLSI Design |
| | COEN 4730 | Computer Architecture |
| | EECE 4510 | Digital Signal Processing (depth only) |
| <u>Intelligent Systems</u> | COEN 4850 | Introduction to Intelligent Systems |
| | COEN 4890 | Machine Learning for Image Processing |
| | EECE 4520 | Digital Image Processing |

Undergraduate Electrical Engineering Electives

| Area | Course Number | Name of Course |
|---|----------------------|--|
| <u>Electronic Devices and Systems</u> | ELEN 4430 | Physical Principles of Solid State Devices |
| | ELEN 4490 | VLSI Design |
| | ELEN 4490 | Introduction to Fabrication |
| <u>Signals, Systems, and Control</u> | ELEN 4320 | Digital Control Systems |
| | EECE 4510 | Digital Signal Processing |
| | ELEN 4550 | Developments in Signal Processing |
| <u>Electromagnetic Fields and Communications</u> | EECE 4510 | Digital Signal Processing |
| | ELEN 4565 | Optic Fiber Communications |
| <u>Power and Energy Systems</u> | ELEN 4210 | Design and Analysis of Electric Motor-Drive |
| | ELEN 4290 | Digital Control of Power Electronic Systems |
| | ELEN 4290 | Sustainable Energy Conversion |

Computer Hardware and Software

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|-----------|-------------------------------------|
| COEN 4730 | Computer Architecture |
| COEN 4850 | Introduction to Intelligent Systems |

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

| <u>Course Number</u> | <u>Name of Course</u> |
|----------------------|-----------------------|
| EECE 1200 | 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 | EECE 1 |
| EECE 2010 | Circuits 1 |
| 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 5210 | Design and Analysis of Electric Motor-Drive Systems |
| EECE 5290 | Digital Control of Power Electronic Systems |
| EECE 5290 | Sustainable Energy Conversion |
| EECE 5320 | Digital Control Systems |

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|------------------|---|
| EECE 5430 | Physical Principles of Solid State Devices |
| EECE 5490 | VLSI Design |
| EECE 5490 | Introduction to Fabrication |
| EECE 5510 | Digital Signal Processing |
| EECE 5565 | Optic Fiber Communications |
| EECE 5730 | Computer Architecture |
| EECE 5790 | VLSI Design |
| EECE 5850 | Introduction to Intelligent Systems |
| EECE 5890 | Machine Learning for Image Processing |
| EECE 6010 | Advanced Engineering Mathematics |
| EECE 6120 | Electromagnetic Fields |
| EECE 6310 | Modern Control Theory |
| EECE 6810 | Algorithm Analysis and Applications |
| EECE 6952 | Department Colloquium |