2019-2020 Electrical Engineering Technical Electives

**EE Focus Technical Electives: You must take at least three of these**

- **ECE 323** Electric Power Conversion (ECE 214 & C- in ECE210)
- **ECE 427** Electric Power Systems (C- in ECE210)
- **ECE 484** Communications Engineering (ECE314 & ECE 316)
- **ECE 444** Analog IC Design (ECE314 & ECE343)
- **ECE 462** Semiconductor Devices (Chy131, PHY122, MAT258)
- **ECE 465** Introduction to Sensors (junior standing)
- **ECE 498** Selected Topics with EE focus (varies)
- **ECE 453** Microwave Engineering (ECE351)
- **ECE 445** Digital IC Design (ECE342)
- **ECE 464** Microelectronics Engineering (Chy131, PHY122, MAT258)
- **ECE 466** Sensor Technology and Instrumentation (ECE 465)

If you wish to specialize in an area, some possibilities are:

- **Power and Alternative Energy**
  - ECE 323, ECE 427

- **Communications and Wireless**
  - ECE 484, ECE 453

- **Microelectronics and Circuits**
  - ECE444, ECE445, ECE462, ECE464, PHY236

- **Solid State and Sensors**
  - ECE453, ECE465, ECE462, ECE464, PHY236

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2019–2020 Course Catalog (5/17/2019)