2015-2016 Computer Engineering Technical Electives

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

- **ECE 417**
  - Introduction to Robotics
  - (ECE177 & MAT228)

- **ECE 471**
  - Embedded Systems
  - (ECE271)

- **ECE 478**
  - Industrial Computer Control
  - (ECE271)

- **COS 3xx**
  - Computer Science Elective
  - (varies)

- **ECE 477**
  - Hardware Applications in C
  - (ECE277)

- **ECE 498**
  - Selected Topics with CE focus
  - (varies)

- **COS 4xx**
  - Computer Science Elective
  - (varies)

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

**Embedded Control**
- ECE478, ECE477, ECE471, ECE414

**High Performance Computing**
- ECE331, ECE477

**Robotics**
- ECE417, ECE477, ECE471, ECE487

Other Courses with Adviser Approval (varies)

- **ECE 477**
  - Hardware Applications in C
  - (ECE277)

- **ECE 427**
  - Electric Power Systems
  - (ECE210 & ECE 214)

- **ECE 445**
  - Digital IC Design
  - (ECE342)

- **ECE 423**
  - Electric Power Conversion
  - (C- in ECE210 or ECE214)

- **ECE 351**
  - Fields and Waves
  - (ECE210 & MAT228)

- **ECE 453**
  - Microwave Engineering
  - (ECE351)

- **ECE 414**
  - Feedback Control Systems
  - (ECE314)

- **ECE 484**
  - Communications Engineering
  - (ECE314 & ECE316)

- **ECE 444**
  - Analog IC Design
  - (ECE314 & ECE343)

- **ECE 462**
  - Semiconductor Devices
  - (Chy131,PHY122,MAT258)

- **ECE 425**
  - Microelectronics Engineering
  - (Chy131,PHY122,MAT258)

- **ECE 455**
  - Introduction to Sensors
  - (junior standing)

2015-2016 Course Catalog (6/8/2015)