2013-2014 Computer Engineering Technical Electives

**ECE 324**
Renewable Energy Engineering
(ECE209 or ECE210)

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

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

**ECE 453**
Microwave Engineering
(ECE351)

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

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

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

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

**ECE 498**
Selected Topics (varies)

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

**ECE 446**
Microelectronics Engineering
(Chy131,PHY122,MAT258)

**ECE 465**
Introduction to Sensors
(junior standing)

**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 435**
  Network Engineering
  (COS221)

- **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 concentrate in an area, some possibilities are:

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

**High Performance Computing**
ECE331, ECE477, ECE435

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

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Offered Spring (prerequisites)
Offered Fall (prerequisites)
Offered Fall and Spring (prerequisites)