

**** Application of probability and statistics requirement:** *If you began Fall 2006 thru Spring 2009, take one of the following courses for EE Elective credit:* EE4250, EE4253, EE4256, EE4257, EE4272, EE4290, EE3180. Plan ahead to ensure you take the pre-reqs on time.
EE3180 – Probability & Random Signal Analysis. (new for academic year 2009-2010)

Power & Energy: ~ really plan ahead ~

Required EE 3120 Electric Energy Systems Fall, Spring
EE 3221 Introduction to Motor Drives Spring 4 cr
EE 4221 Power System Analysis I Fall
EE 4222 Power System Analysis II Spring
EE 4223 Power System Protection Odd Spring
EE 4224 Power System Protection Lab Odd Spring
EE 4225 Distribution Engineering Even Spring
EE 4226 Power Engineering Lab Spring
EE 4xxx Power Electronics Fall
EE4xxx Power Electronics Lab Fall

[Click here to check pre-requisites.](#)

Photonics: ~ Also See EE Photonics Concentration Requirements

EE 2190 Introduction to Photonics Spring
EE 3190 Optical Sensing & Imaging Fall
EE 3291 Photonic Material and Devices Spring
EE 3391 Photonics Laboratory Spring
EE 4441 The Laser Spring
** **EE 4256** Fourier Optics Fall
** **EE 4290** Optical Communication Spring

Control:

(Required) EE 3160 Linear Systems & Control Fall, Spring, Summer
EE 3221 Introduction to Motor Drives Spring 4 cr
** **EE 4250** Communication Theory Fall Spring 2009
EE 4261 Classical Control Systems Fall
EE 4262 Digital & Non-Linear Control Spring

DSP:

EE 4252 Digital Signal Processing & It's Applications Fall 4 cr
** **EE 4253** Real-time Signal Processing Spring
** **EE 4257** Digital Image Processing Spring

Electronics:

(Required) EE 3130 Electronics Fall, Spring
EE 4231 Physical Electronics Fall
EE 4232 Electronic Applications Spring
EE 4271 VLSI Design Summer Fall
EE 4240 Introduction to MEMS Fall 4 cr

[Click here to check pre-requisites.](#)

Computer Systems: (Required) EE 3170 Microcontroller Applications Fall, Spring

EE 4271 VLSI Design Summer Fall
** **EE 4272** Computer Networks Fall
EE 4723 Computer & Network Security Spring
EE 4732 Real Time System Design Fall
EE 4735 Embedded System Programming using Sensor Networks & Mobile Robots Spring
EE 4751 Verilog HDL Design On demand

Communication:

** **EE 4250** Communication Theory Fall Spring 2009
EE 4255 Wireless Communication Spring
EE 4258 Wireless Communication Lab Spring if available
** **EE 4272** Computer Networks Fall

Electromagnetics:

(Required) EE3140 Electromagnetics Fall, Spring
EE 4411 Engineering Electromagnetics Fall
EE 4441 The Laser Spring

Special Topics vary: EE4800, EE4870 Check course descriptions for offerings each semester.

Check online descriptions for pre-requisites and semester offerings. Plan ahead. See schedules for new and one-time offerings.

EE Elective courses listed in bold font. Required courses in regular font, also listed.

EE Electives are EE courses that are not required and not EE3010, EE3805, EE4000, EE4805, EE4900, EE4901, EE4910.

EE3180 may apply as EE Elective credit for EE majors who did not take Probability and began prior to Fall 2009.

EE3180 is a required course for students who began Fall 2009 or later. Fulfills application of Prob/Stats requirement.