Requirements for a Minor in Electrical Engineering

1. A minor in electrical engineering can be earned through completion of 20 credits selected from among the ENG courses listed below.
2. No more than 8 credits from the student's major degree program can be used to satisfy minor requirements.
3. Students are expected to obtain the necessary background (prerequisites or equivalents) to complete chosen courses in the minor program.
4. Students must have a declared major on record in order to apply for a minor in Electrical Engineering.
5. For the minor to be awarded, the grade point average (GPA) of the courses (20 credits) counted toward the minor must be 2.0 or greater.
6. The student's application is subject to the approval of the Associate Chair for Undergraduate Studies of the Department of Electrical and Computer Engineering.
7. Students planning to pursue a minor in Electrical Engineering should apply as early as possible to facilitate course planning, and in no case later than October 1 of the senior year.

The following courses may be used to satisfy the requirements of the EE Minor:

ENG EC 311- Logic Design
ENG EC 401- Signals and Systems
ENG EC 402- Control Systems
ENG EC 410- Electronics
ENG EC 412- Analog Electronics
ENG EC 414- Machine Learning
ENG EC 415- Communication Systems
ENG EC 416- Digital Signal Processing*
ENG EC 417- Electrical Energy Systems
ENG EC 450- Microprocessors*
ENG EC 455- Electromagnetics I
ENG EC 456- Electromagnetics II
ENG EC 471- Physics of Semiconductor Devices
ENG EC 501- Dynamic System Theory
ENG EC 503- Introduction to Learning from Data
ENG EC 505- Stochastic Processes
ENG EC 509- Wireless Communication
ENG EC 515- Digital Communication
ENG EC 516- Digital Signal Processing
ENG EC 517- Introduction to Information Theory
ENG EC 519- Speed Processing
ENG EC 520- Digital Image Proc & Communication
ENG EC 522- Computational Optical Imaging
ENG EC 531- Logic Design
ENG EC 543- Sustainable Power Systems
ENG EC 555- Introduction to Biomedical Optics
ENG EC 560- Introduction to Photonics
ENG EC 562- Engineering Optics
ENG EC 565- Electromagnetic Fundamentals
ENG EC 569- Introduction to Subsurface Imaging
ENG EC 570- Lasers and Applications
ENG EC 573- Solar Energy Systems
ENG EC 574- Physics of Semiconductor Materials
ENG EC 577- Electr Optical & Magnetic Prop of Materials
ENG EC 577- Nanomaterials
ENG EC 580- Analog VLSI Circuit Design
ENG EC 582- RF/Analog IC Design Fundamentals
ENG EC 583- Power Electronics for Energy Systems
ENG EC 591- Photonics Laboratory
ENG EC 597- Subsurface Imaging

* indicates course no longer offered

Courses that are core requirements for the student's major (i.e., not an elective or part of a restricted elective) may not be used to fulfill requirements for the EE minor.

Please Note: For each of the following sets of courses, only one course can be taken for credit in each set due to the overlap of material:

(1) ENG ME 403, ENG ME 404, ENG BE 402*, ENG EC 402, ENG BE 404
(2) ENG ME 303, ENG BE 436
(3) ENG EK 102, ENG EK 103, CAS MA 142, CAS MA 242
(4) ENG BE 401*, ENG BE 403, ENG EC 401
(5) ENG ME 366, ENG EC 381*, ENG EK 381, ENG BE 200*
(6) ENG ME 460, ENG ME 560
(7) ENG EK 156*, ENG ME 358
(8) ENG ME 357, ENG ME 359*

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