BS DEGREE IN ELECTRICAL ENGINEERING
DEPARTMENT OF ELECTRICAL ENGINEERING
FOR STUDENTS STARTING AT UNIVERSITY PARK
Orange Program – 130 credits

With careful planning you may arrange courses in many different ways. For example, the arts, humanities, and social sciences (AHS) may be moved to accommodate technical electives. But when moving courses, be careful to meet all prerequisites.

**FIRST SEMESTER**
- ♣ MATH 140 Calc w/Analytical Geom I (4)
- ♣ PHYS 211 Mechanics (4)
- ENGL 15/30 Rhetoric & Composition (3)
- ♣ CHEM 110 Chemical Principles (3)
- CHEM 111 Experimental Chemistry (1)
- 1st-year Seminar (1)
- **TOTAL** (16)

**SECOND SEMESTER**
- ♣ MATH 141 Calc w/Analytical Geom II (4)
- ♣ PHYS 212 Electricity & Magnetism (4)
- EDSGN 100 Engineering Design (3)
- CMPSC 201 Programming with C++ (3)
- ECON 102/104 Micro/Macro Econ (3)
- **TOTAL** (17)

**THIRD SEMESTER**
- ♦ EE 210 Circuits and Devices (4)
- ♦ CMPEN 270 Logic Desgn: Thy&Prac (4)
- MATH 220 Matrices (2)
- ♦ MATH 250 Ordinary Differential Eqns (3)
- PHYS 213 Fluids and Thermal Phys (2)
- PHYS 214 Waves and Quantum Phys (2)
- **TOTAL** (17)

**FOURTH SEMESTER**
- ♦ EE 310 Electronic Circuit Design (4)
- MATH 230 Calc & Vector Analysis (4)
- CAS 100 A/B Effective Speech (3)
- AHS elective (3)
- **TOTAL** (17)

**FIFTH SEMESTER**
- ♦ EE 330 Electromagnetics (4)
- EE 340 Intro Nanoelectronics (4)
- ♦ EE 350 Continuous-time Linear Sys (4)
- AHS elective (3)
- Health & Physical Activity (GHA) (1.5)
- **TOTAL** (16.5)

**SIXTH SEMESTER**
- EE 300W Design Process (3)
- & EE/CMPEN 300 level elective (3)
- & EE/CMPEN 300 level elective (3)
- ENGL 202C Technical Writing (3)
- AHS elective (3)
- **TOTAL** (15)

**SEVENTH AND EIGHTH SEMESTERS**
The order in which you take these courses may vary. Please consult your adviser.

- EE 403W Capstone Design (3)
- EE/CMPEN 300/400 level elective (3)
- & Statistics elective (3)
- AHS elective (3)
- % Related elective (3)
- Health & Physical Activity (GHA) (1.5)
- **TOTAL (BOTH SEMESTERS)** (31.5)

In accordance with Penn State Policy 83-80, students earning the College of Engineering BS Electrical Engineering Degree must take at least 24 credits of EE courses at the University Park location.

- ♣ This course requires a grade of “C” or better for entrance into the Electrical Engineering major.
- ♣ For students starting at Penn State in Summer 2013 or later, this course requires a grade of “C” or better for entrance into the Electrical Engineering major.
- ♦ This course requires a grade of “C” or better for graduation from Electrical Engineering.
- % The related elective may include ROTC, co-op credits and other credits as specified by the EE Dept.
- & These electives are to be chosen from a list provided by the EE Dept.