

ELECTRICAL ENGINEERING (EE BD)

Recommended Action Plan (RAP)

Bachelor of Science Degree

130 credits

Fall Semester Freshman Year – 17 credits		Credits	Spring Semester Freshman Year – 17 credits		Credits
MATH 140	Calculus I (GQ)	4	MATH 141	Calculus II (GQ)	4
CHEM 110	Chemical Principles I (GN)	3	PHYS 211	Physics: Mechanics (GN)	4
CHEM 111	Experimental Chemistry I (GN)	1	CMPSC 201	Computer Prog for Engr (GQ)	3
EDSGN 100S	Intro to Engr Design (FYS)	3	ECON 2 or 4	Microec or Macroec Anly (GS)	3
ENGL 015	Rhetoric and Composition (GWS)	3	GA, GH, or GS, From General Education List		3
GA, GH, or GS, From General Education List		3			
Fall Semester Sophomore Year – 17 credits		Credits	Spring Semester Sophomore Year – 16.5 credits		Credits
MATH 250	Differential Equations	3	E E 210¹	Circuits & Devices	4
CMPEN 271¹	Intro to Digital Systems	3	MATH 220	Matrices (GQ)	2
CMPEN 275¹	Digital Design Lab	1	MATH 230	Calculus & Vector Analysis	4
PHYS 212	Physics: Elec & Magnet (GN)	4	PHYS 214	Physics: Wave Motion/Quantum (GN)	2
E MCH 211	Statics	3	BB H/KINES, From University List (GHA)		1.5
CAS 100	Effective Speech (GWS)	3	ENGR/SCI ² , CMPSC 122, E MCH 212, M E 300, PHYS 237		3
Fall Semester Junior Year – 16 credits		Credits	Spring Semester Junior Year – 16.5 credits		Credits
E E 312	Electrical Circuit Analysis	3	E E 331	Electromag Fields & Waves	3
E E 310	Electronic Circuit Design I	4	E E 352	Signals & Systems	4
E E 316	Intro Embedded Microcontrol	3	E E 383	Signals & Controls Lab	1
STAT 301	Statistical Analysis I	3	E E 380	Intro Linear Control Systems	3
ENGL 202C	Technical Writing (GWS)	3	E E 313W	Electronic Circuit Design II (GWS)	4
			BB H/KINES, From University List (GHA)		1.5
Fall Semester Senior Year – 15 credits		Credits	Spring Semester Senior Year – 15 credits		Credits
E E 360	Communications Systems I	3	E E 401	Electrical Design Project	3
E E 387	Energy Conversion	3	Tech Elective, Program List (300 or 400-level)		3
E E 400	Engineering Design Concepts	3	Tech Elective, Program List (300 or 400-level)		3
Tech Elective, Program List (300 or 400-level)		3	GA, GH, or GS, From General Education List		3
GA, GH, or GS, From General Education List		3	GA, GH, or GS, From General Education List		3

Notes:

- **Bold type** indicates courses requiring a quality grade of C or better.
- *Italic* indicates courses that satisfy both major and General Education requirements.
- ***Bold italics*** indicates courses requiring a quality grade of C or better and that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements.
- If you have not completed two years of high school study of one foreign language and graduated in the year 2001 or later, you must also schedule 3-4 credits of college level foreign language (in addition to your program requirements).
- An EE BD student must complete general education requirements, the requirements for the major, the number of elective credits required, and earn at least a minimum 2.00 grade-point average.
- General education requirements include 6 credits of arts (GA), 6 credits of humanities (GH), 6 credits of social and behavioral sciences (GS), 3 credits of health and physical activity (GHA), 9 credits of natural sciences (GN), 9 credits of writing/speaking (GWS), and 6 credits of quantification (GQ).
- Also required are 3 credits of United States cultures (US), 3 credits of International Cultures (IL) which can be used to satisfy part of the general education requirements. A (USI) may count for either category, but not both.
- The School of Engineering Advising Handbook is on-line at <http://www.behrend.psu.edu/academic/engineering/PDFS/SchoolHandbook.pdf>
- University Undergraduate Advising Handbook is on-line at <http://www.psu.edu/dus/handbook/>.
- Requirement Web page <http://www.psu.edu/advising/requirements.htm>.
- Blue Book Web site <http://www.psu.edu/bulletins/bluebook/>.
- ¹E E 210, CMPEN 271, and CMPEN 275 must be completed prior to the junior year to ensure that fall semester junior year prerequisites are met.
- ²Students planning on taking the FE exam are advised to take M E 300.

