Electrical Engineering Course Plan

**Semester 1**
15 Credit Hours

- **CS2133**
  - Comp. Science I
  - 2/2
- **ENGR 1111**
  - Intro to Engr
  - 1/1, Note 11
- **CHEM 1414**
  - Gen Chemistry
  - 3/2, Note 1
- **MATH 2144**
  - Calculus I
  - 4/0
- **ENGL 1113**
  - Freshman Comp I
  - 3/0, Note 2

**Semester 2**
15 Credit Hours

- **CS 2133 / 2433**
  - Comp. Science II
  - 3/0, Note 5
- **ENGR 1342**
  - Engr Design/CAD
  - 1/2, Note 11
- **PHYS 2014**
  - General Physics I
  - 3/2, Note 6
- **MATH 2513**
  - Calculus II
  - 3/0
- **POLS 1113**
  - American Gov’t
  - 3/0

**Semester 3**
16 Credit Hours

- **ECEN 3213**
  - Exp Methods I
  - 3/0, Note 8
- **MATH 2153**
  - Calculus III
  - 3/0
- **HIST 1103**
  - American History
  - 3/0

**Semester 4**
16 Credit Hours

- **ECEN 3314**
  - Digital Logic Des
  - 2/2
- **PHYS 2114**
  - General Physics II
  - 3/2, Note 6
- **ECEN 3714**
  - Diff Equations
  - 3/0
- **PHYS 2114**
  - General Physics II
  - 3/2, Note 6
- **PHYS 2014**
  - General Physics I
  - 3/2, Note 6
- **MATH 2153**
  - Calculus III
  - 3/0
- **ECEN 3213**
  - Comp Based Systems
  - 2/2, Note 4

**Pre-Professional School**

- **CS1113**
- **ECEN 2011**
- **ENGR 1111**
- **ENGR 1342**

**Elective**

- **ECEN 2011**
- **ECEN 3213**
- **Elective**

**Suggested Course Plan**

The anticipation at OSU and most institutions of higher education is that for one semester credit hour (SCH) the student spends one hour per week in lecture (two for lab courses) and two hours studying outside of class (one for lab courses). A three credit hour class requires, on average, about nine hours per week. This study plan is recommended for students who will devote full time to university studies and do not have excessive extracurricular activities or other obligations.

**Notes:**
1) Chemistry 1515 may be substituted for CHEM 1414 and should be taken by all students considering medical school.
2) Students with less than a “B” in ENGL 1113 or 1313 must take ENGL 1213 or 1413 prior to ENGL 3323.
3) A total of at least 6 hours designated “H” and 6 hours designated “S” are required. Of these, 3 hrs must meet the International Dimension “I” component and 3 hrs must meet the Diversity “D” component.
4) Either ECEN 3213 or ENSC 3213 (beginning Fall 2008) is acceptable.
5) CS 2433 may be taken instead of CS 2133.
6) General Physics I and II are key prerequisites and should be taken at the earliest possible time.
7) Must be at least 3 SCH.
8) Line indicates this course has a co-requisite and must be taken with other courses.
9) Must be approved by ECE advisor and satisfy current (2010-11) Area of Specialization requirements.
10) Should be chosen from ECEN 3113, 3613, 3723, and 3913, not taken elsewhere.
11) ENGR 1113 may be substituted for ENGR 1111 and ENGR 1342 with permission.
### Electrical Engineering Course Plan

#### Semester 5
16 Credit Hours

- **ENGL 3323** Technical Writing 3/0
- **ENGL 1113**
- **MATH 3113**
- **ENSC 2613** MATH 2233 3/2
- **MATH 2153**

#### Semester 6
16 Credit Hours

- **IEM 3503** Engr Economics 3/0
- **ECEN 3714** Network Analysis 3/0
- **ECEN 3014**
- **ECEN 3114**
- **ECEN 3714**
- **ECEN 3314**
- **ECEN 3514**
- **ECEN 3714**
- **ECEN 3314**
- **ECEN 3514**

#### Semester 7
15 Credit Hours

- **ECEN 4013** Senior Design I 1/4
- **ECEN 4503** Random Signals 3/0
- **ECEN 4013**
- **ECEN 4024**
- **ECEN 3314**
- **ECEN 3514**
- **ECEN 3714**
- **ECEN 3314**
- **ECEN 3514**

#### Semester 8
16 Credit Hours

- **ECEN 4013**
- **ECEN 4024** Senior Design II 1/8
- **ECEN 4013**
- **ECEN 4024**
- **ECEN 3314**
- **ECEN 3513**
- **ECEN 3714**
- **ECEN 3314**
- **ECEN 3513**
- **ECEN 3714**

**Professional School Entry Requirements:**
- Completion of at least 60 college level semester credit hours (SCH).
- Completion of at least 12 SCH from OSU.
- Completion of MATH 2144, 2153, 2163, 2233; PHYS 2014 and 2114; CHEM 1414; ENGR 1111, 1342; ENSC 2113, 2613, 3213 (beginning fall 2008); ECEN 2111, 3233; ENGL 1113 or 1313; CS 1113, 2133 or 2433.
- A grade of “C” or better in each of those courses listed above.
- An overall GPA of 2.6 or better at OSU.
- A GPA of 2.7, or better, in all of the college-level math, science and engineering courses required for the B.S. in Electrical Engineering.

- This flowchart is only an advising instrument. When conflicts occur, the official 2010-2011 Degree Requirement Sheet takes precedence. Always check for the most current version of this flowchart.
- Admission to Professional School is required to take upper level ECEN-prefix courses. Please refer to the OSU Catalog corresponding to your matriculation date for detailed admission requirements.

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![Flowchart](https://example.com/flowchart.png)