Shaded areas indicate Common Engineering Curriculum requirements and General University requirements. Unshaded areas are Professional School requirements.

### Preparatory Courses

**Mathematics**
- MATH 1113 (Intro to Math I)
- MATH 1161 (Intro to Math II)
- MATH 1214 (Intro to Math III)

**Chemistry**
- CHEM 1113 (Intro to Chemistry)

**Physics**
- PHYS 2113 (Intro to Physics I)
- PHYS 2114 (Intro to Physics II)

**English**
- ENGL 1113 (Freshman Comp I)

**Economics**
- POLS 1113 (Intro to Economics)

### Freshman Year

**Engineering**
- ENGR 1111 (Intro to Engineering)
- ENGR 1212 (Engineering Design/CAD)

**Mathematics**
- MATH 1144 (Calculus I)
- MATH 2153 (Calculus II)

**Chemistry**
- CHEM 1113 (Intro to Chemistry)

**Physics**
- PHYS 2113 (Intro to Physics I)

**English**
- ENGL 1113 (Freshman Comp I)

**Economics**
- POLS 1113 (Intro to Economics)

### Sophomore Year

**Engineering**
- ENGR 1212 (Engineering Design/CAD)
- ENGR 2111 (Engr Methods I)

**Mathematics**
- MATH 2163 (Calculus III)

**Chemistry**
- CHEM 1113 (Intro to Chemistry)

**Physics**
- PHYS 2113 (Intro to Physics I)

**English**
- ENGL 1113 (Freshman Comp I)

**Economics**
- POLS 1113 (Intro to Economics)

### Admission Requirements for the Electrical Engineering Professional School

To be admitted into ECEEN Professional School - to be eligible to take the upper level ECEEN courses - the student shall have met the Professional School requirements. They are:

- Completion of at least 60 college level semester credit hours (SCH).
- Completion of at least 12 SCH from OSU.
- Completion of at least 59 SCH from the Pre-Professional School courses.
- Completion of MATH 2144, 2153, 2163, 2233, 3013, and 4013; PHYS 214 and 2114; CHEM 1314; two Pre-Professional ENSC courses, ENSC 3713 and 3021; ENGL 1113 or 1313, and, if required, ENGL1213 or 1413.
- 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 which you have taken at OSU and which are required for the B.S. in Electrical Engineering. These courses depend on your ECEEN degree option; but, include MATH, STAT, PHYS, CHEM, BIOL, GEOL, ENGR, ENSC, ECEEN, etc.
- A final grade of “C” or better in each of the above technical and English courses.

**Note:** This flow chart is for planning purposes only. Students matriculating in 2004 must meet the degree requirements as stated on the official degree requirement sheet dated “Academic Year 2003-2004.”

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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; in addition to ENGL 3323.
3. A total of at least 6 hours designated “H” and 6 hours designated “S” are required. The total (H) and (S) program must satisfy ABET requirements.
4. ENSC 2613 and ENGR 2111 should be taken concurrently; likewise for ENSC 3713 and 3021 and for ENSC 3313 and 3031.
5. CS 2432 (C Programming) and CS 2351 (Unix Programming) may be taken instead of CS 2133 (Computer Science II).
6. Or other math elective – consult requirements sheets and departmental advisor.
7. Five ECEN courses (15 credits) from combinations on the departmentally-approved list.
8. Any engineering course at the 3000 or 4000 level. Alternatively, courses from mathematics, statistics, computer science, or other departments may be used with permission. ENSC 2213 and 2143 also may be used as technical electives.

NOTE:
1. Grade point in major is defined to cover all courses taken listed on the “right-hand column” of the requirement sheet.