B.S. Degree Major Requirements Curriculum Chart

College Core requirements are also necessary for degree completion.
See www.engineering.cornell.edu/academics/undergraduate/curriculum/handbook.

**Engineering Distribution**
Three (3) courses. Total credits 10-11.

- **ENGRD XXX**
  - Cannot be ECE/ENGRD 3100.
  - Must belong to a different ENGRD category from ECE/ENGRD 2300
  - Prereq: CS 1110 or 1112
- **ECE/ENGRD 3100**
  - Introduction to Digital Logic
  - Prereq: ECE 2200

**Required Core Courses**
Three (3) courses. Total credits 12.

- **ECE 2100**
  - Introduction to Circuits for ECEs
  - Coreqs: MATH 2930, PHYS 2213
- **ECE 2200**
  - Signals and Systems
  - Prereqs: MATH 2930 & CS 1110 or 1112
  - Coreq: MATH 2940
- **ECE 3400**
  - ECE Practice and Design
  - Prereqs: ECE 2100, 2200, 2300

**Foundation Courses**
Minimum three (3) courses. Total credits 12.

- **ECE 3100**
  - Intro to Probability and Inference
  - Prereqs: MATH 2940, PHYS 2213 (or equivalent)
  - Prereqs: MATH 2930, MATH 2940, ECE 2200 (or equivalent)
- **ECE 3250**
  - Mathematics of Signal and System Analysis
  - ECE 3100 Intro to Probability and Inference
  - ECE 3200 Signals and Systems

**Upper-Level Electives**
Five (5) courses. Total credits 16-20.

- **ECE Technical Upper-Electives**
  - Choose two (2) ECE courses at 4000+ level
  - 1. ___________________
  - 2. ___________________
  - See rules on back.
- **ECE Technical Upper-Electives**
  - Choose two (2) ECE courses at 3000+ level
  - 1. ___________________
  - 2. ___________________
  - See rules on back.

**Outside-ECE Technical Electives**
Three (3) courses. Total credits 9-12.
See rules governing traditional lecture courses, project work and independent study at www.ece.cornell.edu/ece/academics/undergraduate/major/outsidetechnical.cfm.

1. ___________________
2. ___________________
3. ___________________

*ECE 2400 may be allowed as an Outside-ECE Technical Elective

**Additional Requirements**
Courses fulfilling major requirements may also be counted here.

- **Probability & Statistics**
  - Choose one (1):
  - ECE/ENGRD 3100
  - ENGRD/ORIE 2700
  - CEE 3040
  - MSE 5730
  *Other courses may be allowed by an ECE petition.

- **Advanced Programming/Computer Engineering**
  - Choose one (1):
  - ECE 2400
  - CS 2110
  - ENGRD 3200
  - ECE 4740
  - ECE 4750
  - ECE 4760
  *Other courses may be allowed by an ECE petition.

**Upon affiliation:**
- Complete curriculum chart
- Meet with advisor

**Senior Year - First Semester:**
- Update curriculum chart with advisor
- Submit graduation checklist by semester’s end

**Senior Year - Second Semester:**
- Complete exit requirements

**Exit Requirements:**
- Submit grades for Incompletes
- Be sure AP and transfer credits are included on your transcript
- Complete all ECE requirements with a C- or better.
- Complete graduation checklist by 7th week of final semester and review with advisor
- Complete an exit survey

Updated 08/19/2015
### Rules Governing ECE Technical Upper-Level Electives

1. All five courses must be technical ECE courses.
2. Cross-listed courses with ECE course numbers are acceptable.
3. Unacceptable courses include independent projects such as ECE 4999; non-technical courses such as ECE 3600 and ECE 5830; and seminar courses such as ECE 5870 and 5880. (Note: ECE 5830 counts as an Outside-ECE Technical Elective.)
4. CS 4120 and/or CS 4410 may be used as 4000-level ECE technical electives.