Due to six different college requirements, only major requirements are listed below.

ALL courses used to satisfy major requirements must be taken for a letter grade and passed with a C– or better.

**Lower Division (68 units)**

**MATH** 20A, 20B, 20C, 20D, 20F, 20E | **PHYS** 2A, 2B, 2C, 2D | **CHEM** 6A

**ECE** 15, 25, 30, 35, 45, 65

**Upper Division (72 units)**

**Breadth:**

ECE 100, 101, 102, 103, 107, 108, 109

**Depth (5 or 6 courses. Pick one below):**

**Electronics Circuits and Systems:**

ECE 163, 164, 165, and any two of ECE 111, 118, 161A, 161B, 161C, and 166.

**Electronic Devices and Materials:**

ECE 135A, ECE 135B, 136L, 139, and 183.

**Controls and Systems Theory:**

ECE 171A, 171B, 173, 174, and 118 or 191.

**Machine Intelligence:**

ECE 173, 174, 172A and any two of ECE 161A, ECE 175, ECE 176A, 187, 253A, 285, and COGS 108F.

**Photonics:**

ECE 181, 182, 183, 184, and 185.

**Communications Systems:**

ECE 161A, 153, 154A-B-C.

**Networks:**

ECE 153, 159A, 159B, 158A-B.

**Queueing Systems:**

ECE 171A, 174, 159A-B, and Math. 181A.

**Signal and Image Processing:**

ECE 161A, 161B, 161C, 153, and ECE 172A or 174.

**Computer Design:**

CSE 12, 21, and 141, ECE 158A, 111 or 118, and 165.

**Software Systems:**

CSE 12, 21, 100, 101, 141, and 120.

**Technical Electives:**

three upper division engineering, math, or physics courses

**Professional Electives:**

three upper-division courses (2 courses if Computer Design or Software Systems is chosen as a Depth).

**Design:**

one of ECE 111, 118, 155B, 155C, 190, or 191