

CS v. EECS

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# Chapter 0

## CS vs EECS Requirements

### 0.1 CS

#### 0.1.1 Lower Division Requirements

1. (GPA to Declare: 3.30 overall in CS 61A, 61B, 70)
2. Math 1A + Math 1B - satisfied by 5 on AP BC exam
3. EECS 16A - satisfied by Math 54
4. CS 61A
5. CS 61B/BL
6. CS 61C
7. CS 70 - satisfied by Math 55

#### 0.1.2 Upper Division Requirements

1. (All courses taken for major must be at least 3 units and taken for a letter grade; overall GPA of 2.0)
2. 20 Upper Division units split up as:
  - (a) 4 units from a design course:
    - i. CS 152, 160, 161, 162, 164, 168, 169A, 169L, 180, 182/W182, 184, 186/W186 or
    - ii. EE C128, 130, 140, 143, 192
    - iii. EECS C106A/B, 149, 151
    - iv. Select special topics and graduate courses
  - (b) 8 units upper-division CS courses
  - (c) 8 units upper division CS/EE/EECS courses

3. 4 units of Upper Division Technical Electives - must be from NON CS or from approved technical elective list of EE/EECS

## **0.2 EECS**

### **0.2.1 Math & Science Requirements**

1. Math 1A & 1B
2. Math 53
3. Physics 7A/7B OR 5A/5B/5BL
4. Physics 5C/5CL OR 7C OR lots of other options
5. 4 unit STEM elective

### **0.2.2 Lower Division Requirements**

1. (all of the following except CS 70 count towards 40 units of engineering - 20 units)
2. EECS 16A - can elect to satisfy with linear algebra + EECS 47D, a bridge course
3. EECS 16B
4. CS 61A
5. CS 61B
6. CS 61C
7. CS 70
8. A minimum of 40 units of technical engineering coursework (NOT P/NP)

### **0.2.3 Upper Division EECS Requirements**

1. A minimum of 20 units of upper division EECS courses.
2. at least one major design course:
  - (a) EE C106A/B, C128, 130, 140, 143, C149, 192 or
  - (b) CS C149, 160, 161, 162, 164, 169, 182, 184, 186/W186 or
  - (c) EECS 149, 151 AND 151LA, 151 AND 151LB
  - (d) Select special topics and graduate courses
3. One ethics course on technology
4. A minimum of 40 units of technical engineering coursework (NOT P/NP)