# Computer Engineering Graduation Requirements

**University of Washington**

The graduation requirements shown below are subject to change. For more information, see the CSE Undergraduate Website, available at [http://www.cs.washington.edu/students/ugrad/degree_requirements/](http://www.cs.washington.edu/students/ugrad/degree_requirements/)

## General Education Component

### Written & Oral Communication (12 credits)

- *English Composition (5)
- HCDE 231 Intro. to Technical Writing (3)
- Approved UW Writing or Composition Course (4)

## Diversity Requirement (3 credits)

- UW Diversity Requirement (3)

## Areas of Knowledge (30 credits)

- Visual, Literary, and Performing Arts (10-20)
- Individuals and Societies (10-20)

## Mathematics & Science Component

### Mathematics & Natural Sciences (41 credits)

- *MATH 124, 125, 126 or 134, 135, 136 (15) Calculus with Analytical Geometry
- MATH 308 or 318 (waived if 136 taken) (3) Matrix / Linear Algebra
- *PHYS 121 Mechanics (5)
- PHYS 122 Electromagnetism & Oscillatory Motion (5)
- 10 additional credits from the list of approved natural science courses on the CSE website (10)
- 3 to 6 additional credits of Math/Science (to bring the total to 41) chosen from approved natural science courses on the CSE website, STAT 390, 391, 394, MATH 307, 309, 334, 335, and AMATH 351, 353. (STAT 391 recommended.) (3-6)

* Denotes prerequisites (must be fully completed before application date).

The minimum acceptable grade for any course in the Mathematics & Science or Computer Engineering Components, or UW requirements is a 2.0.

## Computer Engineering Component

### Required (36 credits)

- *CSE 142 Computer Programming I (4)
- *CSE 143 Computer Programming II (5)
- CSE 311 Foundations of Computing I (4)
- CSE 312 Foundations of Computing II (4)
- CSE 332 Data Abstractions (4)
- EE 205 Intro to Signal Conditioning or EE 215 Intro to Electrical Engineering (4)
- CSE 351 The Hardware/Software Interface (4)
- CSE 369 Introduction to Digital Design (2)
- CSE/EE 371 Design of Digital Circuits & Systems (5)

## CE Senior Electives (36 credits)

Select enough additional credits from the lists of approved courses on the CSE website, including at least

- One course chosen from: CSE 403, CSE/EE 474, or CSE 484 (4)
- 3 additional courses chosen from the [Computer Engineering Systems Electives list](http://www.cs.washington.edu/students/ugrad/degree_requirements/) on the CSE website (12-15)
- 2 additional courses from the [CSE Core Courses list](http://www.cs.washington.edu/students/ugrad/degree_requirements/) on the CSE website (6-10)
- a Design Capstone course from the approved list on the CSE website (5)
- 4 credits of College of Engineering courses from the [CSE elective list](http://www.cs.washington.edu/students/ugrad/degree_requirements/) on the CSE website (4)
- Additional courses from the CSE Electives list on the CSE website, to bring the total CSE Elective credits to 36. (0-5)

**Additional Engineering credits to bring the total Engineering credits to 36, not including the required section above (0-5 credits)**

## Free Electives to bring total credits up to the 180 required for graduation (20-25 credits)

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