

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/

General Education Component

Written & Oral Communication (12 credits)

- *English Composition (5)
- ENGR 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 (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. (3-6)
(STAT 391 recommended.)

* 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: (4)
CSE 403, CSE/EE 474, or CSE 484
- 3 additional courses chosen from the [Computer Engineering Systems Electives list](#) on the CSE website (12-15)
- 2 additional courses from the [CSE Core Courses list](#) 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](#) 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)