

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/education/ugrad/academics/degree_requirements.html

General Education Component

Written & Oral Communication (12 credits)

- *English Composition (5)
- HCDE 231 Intro. to Technical Writing (3)
- HCDE 333 Adv. Tech. Writing & Oral Pres. (4)

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
Calculus with Analytical Geometry (15)
- MATH 308 or 318 (waived if 136 taken)
Matrix / Linear Algebra (3)
- *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). Students who meet the science prerequisites with AP credit are strongly encouraged to take an approved science course at UW prior to applying to the department.

The minimum acceptable grade for any course in the Mathematics & Science or Computer Engineering Components, or in Written & Oral Communication, is 2.0. A student's overall GPA must not fall below a 2.0.

Total credits required for graduation: 180

Computer Engineering Component

Required (33 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 352 Hardware Design & Implementation (4)

CE Senior Electives (39 credits)

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

- 4 courses chosen from CSE401, CSE403, CSE444, CSE451, CSE461, CSE466, CSE467, CSE471, and CSE484; at least one of which must be CSE403, CSE466, or CSE484 (16)
- [2 additional courses from the CSE Core](#) (6-8)
Courses list on the CSE website
- a [Design Capstone course](#) from the approved list on the CSE website (5)
- Additional courses from the CSE Electives (10-12)
[list on the CSE website](#), including at least 7 credits from College of Engineering courses, to bring the total CSE Elective credits to 39.

Additional Engineering credits to bring the total Engineering credits to 39, 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)