

Computer Engineering Graduation Requirements

University of Washington

The graduation requirements shown below are subject to change.

For more information, see the Undergraduate Handbook, available online at
<http://www.cs.washington.edu/admission>

General Education Component

Written & Oral Communication (12 credits)

- ❑ *English Composition (5)
- ❑ TC 231 Intro. to Technical Writing (3)
- ❑ TC 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 (19-22 credits)

- ❑ *Math 124, 125, 126 or 134, 135, 136 (15)
Calculus with Analytical Geometry
- ❑ Math 308 or 318 (waived if 136 taken) (3)
- ❑ Stat 390 or 391 Prob/Stat for Engr or CS (4)

Natural Sciences (20 credits)

- ❑ *Phys 121 Mechanics (5)
- ❑ *Phys 122 Electromagnetism &
Oscillatory Motion (5)
- ❑ 10 additional credits from the list of approved natural
science courses in the CS&E Handbook (10)

* Denotes prerequisites (must be fully completed before application date). Regardless of AP credit, at least one calculus or post-calculus math course and one approved natural science course must be completed prior to applying to the department.

Computer Engineering Component

Required (44 credits)

- ❑ *CSE 142 Computer Programming I (4)
- ❑ *CSE 143 Computer Programming II (5)
- ❑ CSE 321 Discrete Structures (4)
- ❑ CSE 322 Intro to Formal Models (3)
- ❑ CSE 326 Data Structures (4)
- ❑ CSE 341 Programming Languages (4)
- ❑ CSE 370 Intro to Digital Design (4)
- ❑ CSE 378 Machine Org & Assembly Lang. (4)
- ❑ EE 215 Intro to Electrical Engineering (4)
- ❑ CSE 451 Operating Systems (4)
- ❑ CSE 461 Intro to Networks (4)

Students must complete either the hardware or the software specialization.

Hardware Specialization (27 credits)

- ❑ EE 233 Circuit Theory (5)
- ❑ CSE 466 Software for Embedded Systems (4)
- ❑ CSE 467 Advanced Digital Design (4)
- ❑ Hardware Design Capstone (5)
- ❑ Select at least 9 credits from courses on the approved senior elective course list in the CS&E Handbook (9)

Software Specialization (25-27 credits)

- ❑ CSE 403 Software Engineering (4)
- ❑ Two from CSE 401, 421, 444, 471 (6-8)
- ❑ Software Design Capstone (5)
- ❑ Select at least 10 credits from courses on the approved senior elective course list in the CS&E Handbook (10)

Free Electives to bring total credits up to the 180 required for graduation (25-30 credits)

The minimum acceptable grade for any required or elective CSE course is 2.0. A student's overall GPA must not fall below a 2.0.