

Computer Science 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

Language Skills (5-20 credits)

- *English Composition (5)
- Foreign Language through 3rd quarter (0-15)

Reasoning and Writing in Context (15 credits)

These courses may double count as Areas of Knowledge requirements.

- Quantitative/symbolic reasoning (5)
- Writing across the curriculum (W courses) and/or additional composition (10)

Areas of Knowledge (75 credits)

- Visual, Literary, and Performing Arts (20)
- Individuals and Societies (20)
- The Natural World (20)
- Additional coursework (15)

Note: Courses taken for the Math & Science Component may be used to satisfy the Natural World and additional coursework in the Areas of Knowledge requirements.

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 is taken) (3)
- Stat 390 or 391 Prob/Stat for Engr or CS (4)

Natural Science (10 credits)

- *Physics 121 or Chem 142 or any course from the list of approved natural science courses in the CSE Undergraduate Handbook. (5)
- Five additional credits of natural science from the approved list (5)

Computer Science Component

Required (32 credits)

Majors must take all of these courses.

- *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)

Senior Electives (23 credits)

Select at least 23 credits from courses on the approved senior elective course list in the CSE Handbook, including at least four courses from the following.

- CSE 401 Intro to Compiler Construction (3)
- CSE 403 Software Engineering (4)
- CSE 421 Intro to Analysis of Algorithms (3)
- CSE 431 Intro to Complexity (3)
- CSE 444 Intro to Database Systems (3)
- CSE 451 Intro to Operating Systems (4)
- CSE 455 Computer Vision (4)
- CSE 457 Computer Graphics (4)
- CSE 461 Computer Networks (4)
- CSE 471 Computer Design and Org (4)
- CSE 473 Artificial Intelligence (3)

Free Electives to bring total credits up to the 180 required for graduation (30-45 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.

*** 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.**