

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/education/ugrad/current/degree_requirements.html

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 (honors) (15)
Calculus with Analytical Geometry
- ☐ Math 308 or 318 (waived if 136 taken) (3)
- ☐ Stat 390, 391, or 394&395 (4)
-extra 2 credits from 394/395 count as
CSE senior elective credits

Natural Science (10 credits)

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

Computer Science Component

Required (35 credits)

- ☐ *CSE 142 Computer Programming I (4)
- ☐ *CSE 143 Computer Programming II (5)
- ☐ CSE 303 Concepts & Tools for Soft. Dev. (3)
- ☐ 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 (20 credits)

Select at least 20 credits from courses on the approved senior elective course list in the CSE Handbook, including **at least four courses** from the following list.

- ☐ 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 466 Software for Embedded Systems (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 (23-41 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.**