Computer Science
(Data Science Option)
Graduation Requirements

University of Washington

The graduation requirements shown below are subject to change.

For more information, see the CSE undergraduate webpages at
https://www.cs.washington.edu/academics/ugrad/current-students/degree

General Education Component

Language Skills (5-20 credits)

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

Diversity Requirement (5 credits)

- ❑ UW Diversity Requirement (5)

Note: These credits may overlap with other requirements.

Reasoning and Writing in Context (15 credits)

- ☑ Reasoning (5)
- ❑ UW approved writing course (W courses) and/or additional composition (10)

Note: These credits may overlap with other requirements. Required courses in CSE and MATH fulfill the Reasoning requirement.

Areas of Inquiry (75 credits)

- ❑ Arts & Humanities (20)
- ❑ Social Sciences (20)
- ❑ Natural Sciences (20)
- ❑ Additional coursework (15)

Note: All Mathematics & Sciences courses below (20-23 credits) as well as CSE 121, 122, and 123 (up to 12 credits) count toward the 20 credits of Natural Sciences and 15 credits of Additional Coursework requirements.

Mathematics & Science Component

Mathematics (15-18 credits)

- ❑ *MATH 124, 125, 126 or 134, 135, 136 (honors) Calculus with Analytical Geometry (15)
- ❑ MATH 208 (waived if MATH 136 taken) (3)

Natural Science (5 credits)

- ❑ *One course from the list of approved Natural Science courses (5)

Computer & Data Science Component

Fundamentals (24-25 credits)

- ❑ *CSE 123 Intro to Computer Programming III (4)
  OR
  *CSE 143 Computer Programming II (5)
- ❑ CSE 311 Foundations of Computing I (4)
- ❑ CSE 312 Foundations of Computing II (4)
- ❑ CSE 331 Software Design & Implementation (4)
- ❑ CSE 332 Data Structures and Parallelism (4)
- ❑ CSE 351 The Hardware/Software Interface (4)

Data and Society (3-5 credits)

- ❑ SOC 225 Data and Society (3/5)

Core & Electives (33 credits)

At least 33 additional credits, including at least:

- ❑ CSE 421 Intro to Algorithms (3)
- ❑ CSE 444 Database Internals (4)
- ❑ CSE 446 Machine Learning (4)
- ❑ CSE 442 Data Visualization (4)
- ❑ 1 additional course chosen from the Data Science Electives (3-4)
- ❑ 1 additional course from the CSE Core Courses list (3-4)
- ❑ Either 1 additional CSE Core Course or 1 course from the CSE CSE Capstone list (3-5)
- ❑ Additional courses from either the CSE Core Courses list or the CSE Elective list to bring total CSE Elective credits to 33 (5-9)

Free Electives to bring total credits up to the 180 required for graduation

Note: A student's cumulative GPA must not fall below a 2.0.

*** Denotes prerequisites that must be fully completed before applying to the major. This does not apply to direct-to-major freshmen applicants.**

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