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.

**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) (15)
- Calculus with Analytical Geometry
- 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 Capstone list (3-5)
- Additional courses from either the CSE Core Courses list or the CSE Elective list (5-9)
  to bring total CSE Elective credits to 33

**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.