

Computer & Information Science Department, University of Oregon - <http://www.cs.uoregon.edu>

Notes:

Lower-Division Core

Courses taken *graded*:

- CIS 210, 211 and 212 -- Computer Science I, II and III.
- MATH 231, 232 -- Discrete Math I and II)

Upper-Division Core

Courses taken *graded*:

- CIS 313 -- Intermediate Data Structures
- CIS 314 -- Computer Organization
- CIS 315 -- Introduction to Algorithms

Calculus and Additional Math

Complete 8 graded credits from among these three sequences – courses taken *graded*:

- MATH 251, 252 – Calculus I, II **OR**
- MATH 261, 262 – Calculus with Theory I, II **OR**
- MATH 246, 247 – Calculus for the Biological Sciences

Science

Take 12 credits from one of the following options; these classes *may be taken Pass/No Pass or graded*:

- Physics:** PH 201, 202, 203 - General Physics **OR** PH 251, 252, 253 - Foundations of Physics
- Chemistry:** CH 221, 222, 223 - General Chemistry **OR** CH 224H, 225H, 226H - Honors General Chemistry
- Biology:** CH 111 - Introduction to Chemical Principles **OR** CH 113 - The Chemistry of Sustainability **OR** CH 221 - General Chemistry **OR** CH 224 - Honors General Chemistry, BI 211 - General Biology, and BI 212 - General Biology **OR** BI 213 - General Biology

Writing

In addition to the university's writing requirement, take one from the following (*may be taken Pass/No Pass or graded*):

CIS Major Grading Policy:

Students must earn no grade below **B-** for automatic advancement to the upper-division courses. Students with at most one **C** in the lower-division core courses may submit a prerequisite override request form to continue in the major.

- CIS 330 – C/C++ & Unix
- CIS 415 -- Operating Systems.
- CIS 422 -- Software Methodology I
- CIS 425 -- Principles of Programming Languages

Choose 8 credits from the following – courses taken *graded*:

- MATH 233 – Elements of Discrete Mathematics III
- MATH 253 – Calculus III **OR** MATH 263 – Calculus with Theory III
- MATH 341 – Elementary Linear Algebra
- MATH 425 – Statistical Methods I **OR** MATH 343 – Statistical Models/Methods

- Psychology:** PSY 201 - Mind & Brain, PSY 202 - Mind & Society, **and** PSY 304 - Biopsychology **OR** PSY 330 - Thinking **OR** PSY 348 - Music & the Brain
- Geography:** GEOG 141 - The Natural Environment, **and two** from GEOG 321 - Climatology, GEOG 322 - Geomorphology, or GEOG 323- Biogeography
- Geological Sciences:** GEOL 201 - Earth's Interior Heat & Dynamics, GEOL 202 - Earth Surface & Environmental Geology, GEOL 203 - Evolution of the Earth

Note: Students are encouraged to complete the accompanying lab courses.

- WR 320 Technical Writing
- WR 321 Business Communications

**Additional track requirements
continued on back**

Foundations Track Requirements (24 credits)

Complete 12 upper-division CIS electives.

These courses must be taken graded.

Complete 8 additional upper-division CIS elective credits.

Choose electives from CIS upper-division courses, including Individualized Study Courses. CIS 399 and 410 must have regular class meetings, homework assignments and a prerequisite of 313 or higher.

A maximum of 8 credits may be taken from courses numbered 399 - 409, and a maximum of 4 credits in any one course numbered 400-409

Complete 4 upper-division math elective credits.

Choose any math course with a prerequisite of MATH 252 or higher, or CIS 413, 420, 427, 410 Cryptography, 410 Probabilistic Methods. CIS courses used to complete mathematics elective cannot be used toward upper-division CIS elective credits.

CIS Major Grading Policy:

A student who receives two grades below C- in upper-division core courses, or three grades below C- in any upper-division courses, may be removed from the major.

Major Requirements — Major Progress Review Form

Students are encouraged to meet with a CIS faculty advisor to complete a CIS Major Progress Review for after beginning the upper-division core courses (300-level).