A grade of C- or better is required.

UNIVERSITY GRADUATION REQUIREMENTS: OSU’s minimum credit hour requirements are met by combining Baccalaureate Core and major courses plus other electives of your choice. Additional electives may be needed to reach the university degree requirements.

- 180 credits – Minimum number of credits required for a BS degree
- 60 credits – Minimum number of upper division (300-level or above) credits required
- 2.0 Cumulative OSU and major GPA
- 45 of the last 75 credits (or 150 total credits) of coursework must be from OSU

A. BACCALAUREATE CORE REQUIREMENTS: Total of 48 credits plus WIC course. No single course may be used to satisfy more than one area of the Bacc Core, except WIC. Courses fulfilled through the major are checked.

Skills Courses (15 credits)
- Writing I (3 cr) WR 121*
- Writing II (3 cr)
- Speech (3 cr) (COMM 111, 114, or 218)
- Math 105 or higher (3 cr)
- Fitness Lecture (2 cr) HHS 231
- Fitness Lab (1 cr)

Perspectives Courses (24 credits) – No more than two courses from any one subject may be used.
- Physical Science w/lab (4 cr)
- Biological Science w/lab (4 cr)
- Biological or Physical Science w/lab (4 cr)
- Cultural DiversityCD (3 cr)
- Literature and the Arts (3 cr)
- Social Processes and InstitutionsSI (3 cr)
- Western CultureWC (3 cr) [suggested AEC 253]

Difference, Power, and Discrimination (3 credits)
- Difference, Power, and DiscriminationDPD (3 cr) [suggested: AG 301, ES 353, FW 340, GEO 309]

Synthesis Courses (6 credits) – These two courses must be upper division, from different subjects.
- Contemporary Global IssuesG (3 cr)
- Science, Technology, and SocietyS (3 cr)

Writing Intensive Course (3-4 credits) - Consult with your advisor about alternative approved courses.

ENVIRONMENTAL SCIENCES MAJOR REQUIREMENTS: Courses taken in sections B and C can double count with Bacc Core requirements. Students cannot S/U major requirements. A grade of C- or better is required in all upper division courses.

B. BASIC SCIENCE AND MATH COURSES (51-53 credits)

1. Math (8 credits)
   - MTH 251* or MTH 227*
   - MTH 252 or MTH 228

2. Chemistry (15 credits)
   - CH 121 or (CH 231 + CH 261)*
   - CH 122 or (CH 232 + CH 262)*
   - CH 123 or (CH 233 + CH 263)

3. Biology (12 credits)
   - BI 211*
   - BI 212*
   - BI 213*

4. Physics (8-10 credits)
   - Two quarters or one semester
   - PH 201 or PH 211
   - PH 202 or PH 212

5. Statistics (8 credits)
   - ST 351*
   - ST 352*

*A grade of C- or better is required.
C. ENVIRONMENTAL SCIENCES AND HUMANITIES CORE: Courses taken in this section can double count with Bacc Core requirements. No double counting between Sections C and D, or within Sections C and D. A grade of C- or better required in all upper division courses. Students cannot S/U major courses. Refer to the online Schedule of Classes, classes.oregonstate.edu, for course information including prerequisites and restrictions.

**Environmental Sciences Orientation** (1 credit)
- ENSC 101 [Offered fall term only]

**Natural Environmental Systems** (minimum 12 credits) – Choose one course for each requirement
- Atmosphere (4 credits)
  - ATS 201, ATS 310, ATS 420, GEOG 323
- Biosphere (3-4 credits)
  - BI 370, GEOG 324
- Geosphere (3-4 credits)
  - CSS 205, GEO 201, GEO 202, GEO 221, GEO 322, GEOG 102, SOIL 205/206, SOIL 395
- Hydrosphere (3-5 credits)
  - FW 456, GEO 487, GEOG 340, GEOG 424, OC 201

**Humans and the Environment** (12-16 credits) – Choose one course for each requirement
- Economics and Policy (3-4 credits)
  - AEC 250, AEC 253, AEC 351, AEC/ECON 352, AEC 432, ECON 201, FOR 462, FW 324, FW 415, FW 422, FW 462, GEOG 340, GEOG 450, GEOG 451, PPOL 446, PPOL 447, PS 473, PS 475, PS 476, PS 477, SOC 360, WGSS 440
- Ethics (3-4 credits)
  - ANTH 481, CH 374, ES/PHL/REL 448, FES/TOX 435, FES 485, FW 340, GEO 309, PHL 325, PHL 439, PHL 440, PHL/REL 443, PS 461, SOC 456, SOC 480, SOC 815, WGSS 440
- Human Environment (3-4 credits)
  - AG 301, BI 301, BI 347, BI 348, EAH 411, ENSC 479, FW 324, FW 325, FW 479, GEO 308, GEOG 203, GEOG 300, GEOG 350, GEOG 431, HST 481, OC 333, SUS 102, SUS 350, WGSS 440, WR 462, Z 349
- Management (3-4 credits)

D. SPECIALIZATION AREA: Total credits should be ≥27. Courses taken in Specialization Area can double count with Bacc Core requirements. Courses taken in Specialization Area cannot double count with Basic Science and Math Courses or Environmental Sciences and Humanities Core. A list of specializations and worksheets are available at [http://ceoas.oregonstate.edu/envsci/](http://ceoas.oregonstate.edu/envsci/). Contact your advisor to declare a specialization.

E. EXPERIENTIAL LEARNING: (3 credits) - Requirement can be met by one of the following.
- ENSC 401 Research and ENSC 403 Thesis ([https://ceoas.oregonstate.edu/research/undergraduate/](https://ceoas.oregonstate.edu/research/undergraduate/))
- ENSC 410 Internship ([https://ceoas.oregonstate.edu/internships/undergraduate/](https://ceoas.oregonstate.edu/internships/undergraduate/))
- Programs (SEA, Hatfield Marine Science Center, Study Abroad, IE3 Global Internships, etc.)
- Coursework - Courses that provide hands-on training in lab or field research methods, mapping techniques (field or GIS), or environmental planning and project design. These classes can double count with any other Bacc Core or Environmental Sciences requirement. Consult with your advisor for alternative approved courses. Examples include: BI 371, BI 373, BI 375, BOT 341, BOT 440, RNG 441, SOIL 466

*A grade of C- or better is required.*