

Bachelor of Science in  
**ENVIRONMENTAL SCIENCES**

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**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 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)

- |  |   |
|--|---|
| <input type="checkbox"/> Writing I: WR 121 (3 cr)              | <input checked="" type="checkbox"/> Math 105 or higher (3 cr) |
| <input type="checkbox"/> Writing II (3 cr)                     | <input type="checkbox"/> Fitness Lecture (2 cr) HHS 231       |
| <input type="checkbox"/> Speech (3 cr) (COMM 111, 114, or 218) | <input type="checkbox"/> Fitness Lab (1 cr)                   |

**Perspectives Courses** (24 credits) – No more than **two** courses from any **one** subject may be used.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Physical Science w/laboratory (4 cr)        | <input type="checkbox"/> Cultural Diversity <sup>CD</sup> (3 cr)  |
| <input checked="" type="checkbox"/> Biological Science w/lab (4 cr)             | <input type="checkbox"/> Literature and the Arts <sup>LA</sup> (3 cr)   |
| <input checked="" type="checkbox"/> Biological or Physical Science w/Lab (4 cr) | <input checked="" type="checkbox"/> Social Proc. and Inst. <sup>SI</sup> (3 cr) [ <a href="#">See C Economics</a> ] |
|   | <input type="checkbox"/> Western Culture <sup>WC</sup> (3 cr) [ <i>suggested AEC 253</i> ]                          |

**Difference, Power, and Discrimination** (3 credits)

- Difference, Power, and Discrimination<sup>DPD</sup> (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 Issues<sup>G</sup> (3 cr)
- Science, Technology, and Society<sup>S</sup> (3 cr)

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

- Writing Intensive Course<sup>WIC</sup> (3-4 credits)
- Approved WIC courses: AEC 434, AEC 461, AG 421, BB/BI 317, BI 306H, BI 371, BOT 323, ECON 428, ECON 439, ENSC 479, FOR 460, FW 435, GEO 427, GEOG 323, GEOG 330, HSTS 415, **HSTS 419**, HSTS 425, PS 449

**Environmental Sciences Major Requirements:** Courses taken in this section can double count with Bacc Core requirements. Students cannot S/U major requirements. \*A grade of C- or better is required in MTH 251, CH, BI series, and ST series.

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

**Math** (8 credits)

- MTH 251\*
- MTH 252

**Biology** (12 credits)

- BI 211\*
- BI 212\*
- BI 213\*

**Statistics** (8 credits)

- ST 351\*
- ST 352\*

**Chemistry** (15 credits)

- CH 121 or (CH 231 + CH 261)\*
- CH 122 or (CH 232 + CH 262)\*
- CH 123 or (CH 233 + CH 263)

**Physics** (8-10 credits) – Two quarters or one semester

- PH 201 or PH 211
- PH 202 or PH 212

**C. ENVIRONMENTAL SCIENCES AND HUMANITIES CORE:** Courses taken in this section can double count with Bacc Core requirements. A grade of C- or better required in all upper division. Students cannot S/U major requirements.

**Environmental Sciences Orientation (1 credit)**

- ENSC 101 [*Offered fall term only*]

**Natural Environmental Systems (12-17 credits) – Choose *one* course for each requirement**

- Atmosphere (3-4 credits) \_\_\_\_\_ ATS 201, ATS 310, ATS 420, GEOG 323<sup>WIC</sup>
- Biosphere (3 credits) \_\_\_\_\_ BI 370
- Geosphere (3-4 credits) \_\_\_\_\_ GEO 202, GEO 221, GEO 322, GEOG 102, GEOG 350, SOIL 205/206, **SOIL 395<sup>S</sup>**
- Hydrosphere (3-5 credits) \_\_\_\_\_ FW 456, GEO 487, GEOG 340<sup>S</sup>, OC 201

**Humans and the Environment (15-20 credits) – Choose *one* course to fulfill each requirement**

- Economics (3-4 credits) \_\_\_\_\_ AEC 250<sup>SI</sup>, ECON 201<sup>SI</sup>, ECON 202<sup>SI</sup>, **FW 462**
- Ethics (3-4 credits) \_\_\_\_\_ ANS/FES/FW/SOC 485<sup>S</sup>, ANTH 481<sup>S</sup>, BI/FES/TOX 435<sup>S</sup>, CH 374<sup>S</sup>, ES 353<sup>DPD</sup>, ES/PHL/REL 448, FW 340<sup>DPD</sup>, GEO 309<sup>DPD</sup>, PHL 325<sup>S</sup>, PHL 439, PHL 440<sup>G</sup>, PHL/REL 443<sup>G</sup>, PS 461, SOC 456<sup>S</sup>, SOC 480<sup>G</sup>, SOC 481<sup>S</sup>, **WGSS 440<sup>S</sup>**
- Human Environment (3-4 credits) \_\_\_\_\_ AG 301<sup>DPD</sup>, BI 301<sup>G</sup>, **BI 348<sup>S</sup>**, ENSC 479<sup>S/WIC</sup>, FW 325<sup>G</sup>, FW/HSTS 470<sup>S</sup>, GEO 308<sup>G</sup>, GEOG 203<sup>DPD</sup>, GEOG 300<sup>S/G</sup>, GEOG 431, GEOG 450, HST 481<sup>S</sup>, SUS 102, SUS 350<sup>G</sup>, **WGSS 440<sup>S</sup>**, Z 349
- Law and Policy (3-4 credits) \_\_\_\_\_ AEC 253<sup>WC</sup>, AEC 351<sup>G</sup>, AEC/ECON 352<sup>G</sup>, AEC 432, FOR 462, **FW 415**, **FW 422**, GEOG 340<sup>S</sup>, PS 475, PS 476<sup>S</sup>, PS 477, **SOC 360<sup>DPD</sup>**, **WGSS 440<sup>S</sup>**
- Management (3-4 credits) \_\_\_\_\_ BOT/FOR 413, **FES/HORT 350**, FES 352, **FES 355**, FES 365<sup>G</sup>, FES/FW 445, FOR 346, FW 251, FW 323, **FW 326**, FW 435<sup>WIC</sup>, GEO 306<sup>S</sup>, GEOG 430, GEOG 440, GEOG 441, GEOG 452, **HORT/FES 350**, NR 455, RNG 341, RNG 355, RNG 421, RNG 455, RNG 490

**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 is available at <http://ceoas.oregonstate.edu/envscil/>. Contact your advisor to declare a specialization.

**E. EXPERIENTIAL LEARNING:** (3 credits) - Requirement can be met by one of the following.

- ENSC 410 Internship
- ENSC 401 Research
- 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 352, BI 371, CH 324, BOT 341, BOT 440, FW 255, GEOG 360, RNG 441, SOIL 466

F = fall  
W = winter

Sp = spring  
**BOLD** = Ecampus ONLY classes

DPD = Difference, Power, and Discrimination  
G = Contemporary Global Issues  
S = Science, Technology and Society

WIC = Writing Intensive  
WC = Western Culture