

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

**Tillamook Bay
Community College**

Environmental Engineering

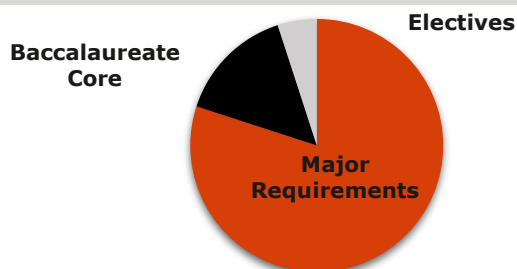
Environmental Engineering is the engineering discipline that applies scientific and engineering principles to improve the natural environment, to provide healthy water, air, and land, and to remediate polluted sites. You will study the impact of engineering and chemical processes on the environment.

With an Environmental Engineering degree, you may work in an interdisciplinary team in public agencies, consulting firms, construction firms, military or Peace Corps, etc.

Common employment industries include:

- wastewater collection and treatment,
- pollution in surface and ground water,
- and water supply and distribution.

Your Bachelor's Degree (BS) in the College of Engineering



- A minimum of 192 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Some courses can count towards your major and the Baccalaureate Core. Advisors can assist in selection.
- More info at cbee.oregonstate.edu/enve-undergraduate-program

Courses Required for Environmental Engineering Major

This list is comprehensive. Speak with OSU advisor for more information

| Environmental Engineering Core Requirements | Tillamook Bay CC Equivalent Course | OSU Course | Notes |
|---|------------------------------------|--|---|
| CBEE Orientation | None | CBEE 101 | |
| Engr. Problem Solving & Comput. | None | CBEE 102 | |
| Material Balances & Stoichiometry | None | CBEE 211 | Offered ECampus Winter term at OSU, or take CBEE 280 summer term. |
| Energy Balances | None | CBEE 212 | Offered ECampus Spring term at OSU, or take CBEE 280 summer term. |
| Process Data Analysis | None | CBEE 213 | |
| Statics | None | ENGR 211 | |
| Dynamics | None | ENGR 212 | |
| Strength of Materials | None | ENGR 213 | |
| Civil & Con.. Engr: Graphics Design | None | CCE 201 | |
| Differential Calculus | MTH 251 | MTH 251 | |
| Integral Calculus | MTH 252 | MTH 252 | |
| Vector Calculus | MTH 254 | MTH 254 | |
| Applied Differential Equations | None | MTH 256 | |
| Matrix & Power Series | None MTH 253 | MTH 264 MTH 265 | No equivalent for MTH 264, MTH 253 will fulfill MTH 265 requirement. |
| General Physics (Calculus) | None | PH 211 | |
| General Physics (Calculus) | None | PH 212 | |
| General Physics (Calculus) | None | PH 213 | |
| General Chemistry | None | CH 231/261 CH 232/262 CH 233/263 | Lecture & lab for 200-level Chemistry have separate course numbers at OSU |
| Organic Chemistry | None | CH 331 (LD) CH 332 (LD) | (LD) = Lower Division Transfer. If complete series and pass ACS , will receive upper division. |

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| Environmental Geology | None | GEO 221 | |
| Introductory Microbiology | BI 234 | MB 230 | |

Courses Required for Environmental Engineering Major, cont.

| Environmental Engineering Core Requirements | Tillamook Bay CC Equivalent Course | OSU Course | Notes |
|--|------------------------------------|----------------------|--------------------------------|
| Technical Writing | WR 227 | WR 327 (LD) | (LD) = Lower Division Transfer |
| Public Speaking Argument & Critical Discourse | COMM 111 or 112 | COMM 111 COMM 114 | Complete 1(one) course |

Important Notes & Resources

Important Notes for the College of Engineering and Environmental Engineering Major:

- Grade requirements: Grade of C or better in all major coursework.
- See a sample degree plan by searching "Environmental Engineering" at admissions.oregonstate.edu/find-your-major
- Other similar majors to explore: Chemical Engineering, Biological Engineering
- Environmental Engineering students the best time to transfer is **Summer** term, particularly due to the CBEE series courses. Talk with an OSU advisor about your specific timeline.
- CBEE 280 should be taken, after pre-requisites are met, the summer before starting upper division CBEE courses.
- CBEE 211/212 will now be offered E-Campus during winter and spring term to all allow for more flexibility.

Resources and OSU Information:

- Students do not have to complete a transfer degree in order to transfer to OSU.
 - If you've completed the Oregon AAOT, all requirements of the Baccalaureate Core are complete except for Synthesis Courses and Writing Intensive Courses.
- Preparing to apply to OSU? See admissions info: transfer.oregonstate.edu
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
- Schedule your OSU campus tour and meet with an advisor at visitosu.oregonstate.edu/visit-campus

General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of Tillamook Bay CC courses that fulfill Bacc Core requirements: <https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-tillamook-bay-community-college>

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| SKILLS COURSES | Math Writing I Writing II Speech (Writing III) Fitness | Completed as part of the major WR 121. Required to transfer. Completed as part of the major Completed as part of the major HE 295 + PE 295 |
| PERSPECTIVE COURSES | Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture | Completed as part of major Completed as part of major Completed as part of major Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above Choose one course from BaccCore link above |
| DPD COURSE | Difference, Power, & Discrimination | Choose one course from BaccCore link above |
| SYNTHESIS COURSES | Contemporary Global Issues Science, Technology, & Society | Upper division course, take through OSU Upper division course, take through OSU |

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

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| Tillamook Bay Community College | tillamookbaycc.edu/programs-services/degree-partnership-program |
| OSU Environmental Engineering | CBEE Advisors: cbee.advising@oregonstate.edu |
| OSU College of Engineering Main Office | askengineering@oregonstate.edu |