

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

**Southwestern Oregon Community College**

**CORVALLIS**

## Ecological Engineering

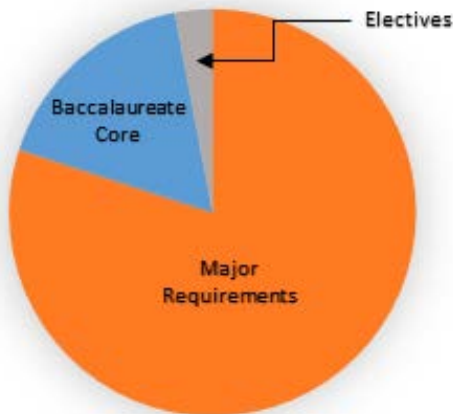
The Ecological Engineering (EcoE) program at OSU was the first-of-its-kind in the nation, and the discipline is rapidly developing as an important emerging area of engineering.

Ecological Engineering blends engineering and scientific principles/problem-solving techniques to optimize the design of sustainable systems (natural, urban, and agricultural) that integrate human activities into the natural environment to the benefit of both.

EcoE graduates are highly employable and have found work in a variety of employment sectors, including:

- Engineering design & consulting firms
- Government agencies (federal, state, local)
- Natural resource management/restoration firms
- Sustainable farms & vineyards
- Surveying & ecological modeling firms
- Water and wastewater treatment facilities

## Bachelor of Science 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 124 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.
- OSU Catalog has a list of courses required for your major and option: [catalog.oregonstate.edu](http://catalog.oregonstate.edu)

## Courses for this Major offered at Southwestern Oregon Community College

Requirement	SWOCC Course	OSU Course
Ecological Engineering Orientation I & II	ENGR 111, ENGR 112	BEE 101, BEE 102
Principles of Biology series*	BI 201, BI 202, BI 203	BI 211, BI 212, BI 213
General Chemistry + Lab series	CH 221, CH 222, CH 223	CH 231/261, CH 232/262, CH 233/263
Statics	ENGR 211	ENGR 211
Strength of Materials	ENGR 213	ENGR 213
Differential, Integral, & Vector Calculus	MTH 251, MTH 252, MTH 254	MTH 251, MTH 252, MTH 254
Applied Differential Equations	MTH 256	MTH 256
Intro to Matrix Algebra + Intro to Series	MTH 253 + MTH 260	MTH 264 + MTH 265
Calculus-Based Physics series	PH 211, PH 212, PH 213	PH 211, PH 212, PH 213

\*These courses transfer into OSU as BI LD2. They are similar to OSU's BI 211-213 but do not match closely enough to be directly articulated. Students should complete the entire series before transferring or wait to take the series at OSU.



**Oregon State**  
**University**

## Important Notes & Resources

### Important Notes for the College and Major:

- For more information on the Ecological Engineering program and degree requirements, please visit <https://bee.oregonstate.edu/biological-and-ecological-engineering/advisors>
- Grade requirements: major coursework requires a C or better, some Baccalaureate Core classes will be considered passing with a D- or better
- See a sample degree plan by searching Ecological Engineering at [admissions.oregonstate.edu/find-your-major](https://admissions.oregonstate.edu/find-your-major)
- Other similar majors to explore: Environmental Engineering and Environmental Science
- The best time to transfer is fall term. Talk with an OSU advisor about your specific timeline.

### Resources and OSU Information:

- Preparing to apply to OSU? See admissions info: [oregonstate.edu/admissions/transfer.html](https://oregonstate.edu/admissions/transfer.html)
- Want to take classes at OSU and an Oregon community college? Check out the Degree Partnership Program: [partnerships.oregonstate.edu/students](https://partnerships.oregonstate.edu/students)
- Schedule a visit to OSU for a tour and to meet with an advisor, [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus)

## General Education Courses (called Baccalaureate Courses)

- Complete one course in each Perspectives category with no more than two in the same department.
- For full listing of courses that fulfill Baccalaureate Core, please refer to [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college)

<b>SKILL COURSES</b>	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major. WR 121. Required to transfer. WR 227 COMM 111 or COMM 112 HE 295
<b>PERSPECTIVE COURSES</b>	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. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above.
<b>DPD COURSES</b>	Difference, Power, and Discrimination	Many options, see BaccCore link above.
<b>SYNTHESIS COURSES</b>	Contemporary Global Issues Science, Technology, and 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. Also, consider visiting OSU to take a campus tour and meet with an advisor. See [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<b>SWOCC Advisor</b>	
<b>OSU Ecological Engineering Advisor</b>	<a href="mailto:cce@engr.oregonstate.edu">cce@engr.oregonstate.edu</a>
<b>OSU College of Engineering Main Office</b>	<a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a>