

Major Offered At:

CORVALLIS

**Klamath
Community College**

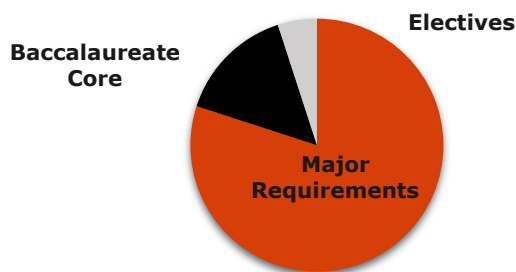
Ecological Engineering

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

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



- A minimum of 180 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 bee.oregonstate.edu/biological-and-ecological-engineering/ecological-engineering-

Courses Required for Ecological Engineering Major

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

Ecological Engineering Core Requirements	KCC Equivalent Course	OSU Course	Notes
Ecological Engineering I	None	BEE 101	Starting Fall 2021, will be offered at OSU as ENGR 100
Ecological Engineering II	None	BEE 102	Starting Winter 2022, will be offered at OSU as ENGR 102
Ecological Engineering III	None	BEE 103	Starting Spring 2022, will be offered at OSU as ENGR 103
Fundamentals of Eco Engr.	None	BEE 221	
Ecological Engr. Computation	None	BEE 222	
Ecology for Engineers	None	BEE 270	
Statics	None	ENGR 211	
Strength of Materials	None	ENGR 213	
General Chemistry (with lab)	CHE 221	CH 231/261	
General Chemistry (with lab)	CHE 222	CH 232/262	
General Chemistry (with lab)	CHE 223	CH 233/263	
Differential Calculus	MTH 251	MTH 251	
Integral Calculus	MTH 252	MTH 252	
Vector Calculus I	MTH 254	MTH 254	
Applied Differential Equations	None	MTH 256	
Intro to Matrix Algebra	None	MTH 264	
Intro to Series	None	MTH 265	
Intro to Statistics for Engineers	None	ST 314	
General Physics (with Calculus)	PH 211	PH 211	
General Physics (with Calculus)	PH 212	PH 212	
General Physics (with Calculus)	PH 213	PH 213	
Soil Science (with lab)	None	SOIL 205/206	

Courses Required for Ecological Engineering Major, cont.

Ecological Engineering Core Requirements	KCC Equivalent Course	OSU Course	Notes
Technical Writing	WR 227	WR 327 (LD)	LD = Lower-division transfer
Public Speaking Argument & Critical Discourse Interpersonal Communication	SPE 111	COMM 111 COMM 114 COMM 218	Complete 1(one) course
Intro to Environ. Econ & Policy Intro to Microeconomics	ARE 250 ECO 201	AEC 250 ECON 201	Complete 1(one) course
Ethics	None	PHL 205	Other courses available post-transfer

Important Notes & Resources

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

- Grade requirements: Grade of C or better in all major coursework.
- See a sample degree plan by searching "Ecological Engineering" at admissions.oregonstate.edu/find-your-major
- Other similar majors to explore: Environmental Engineering, Environmental Science
- The best time to transfer is **Fall**. Talk with OSU Ecological Engineering advisor, Rachel Jones, about your specific timeline. It is important to speak with Rachel early and often, to ensure correct course selection and sequencing.

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 KCC courses that fulfill Bacc Core requirements: admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-klamath-community-college

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 HPE 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 Completed as part of major Can be completed as part of major: see advisor
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.

Klamath Community College	klamath.edu/en-US/Academics/Academic-Advisors
OSU Ecological Engineering	Rachel Jones: rachel.jones@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu