

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

CORVALLIS

Clackamas Community College

Bioengineering

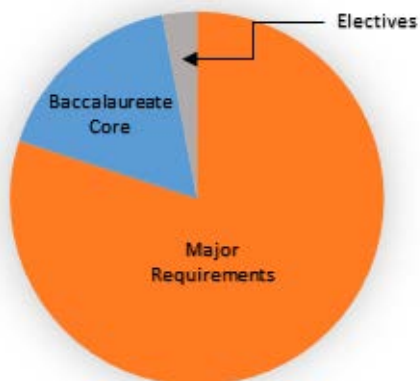
What is Bioengineering?

Bioengineering is an interdisciplinary field that applies scientific and engineering principles to the development of new biologics, materials, devices, and processes in the broad areas of bioprocess, biomedical, and bioenvironmental technology. You will study heat and fluid flow and how they are coupled with biological reactions or phenomena.

Careers in Bioengineering

With a Bioengineering degree you can work in pharmaceutical industry, medical device and diagnostics, food and beverage, commodities, petrochemical or paper products, etc. Common employment industries include cosmetics, prosthetics, fermentation, cellular and tissue engineering.

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



- A minimum of 192 credits are required for graduation; 60 credits 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: catalog.oregonstate.edu

Courses for this Major offered at Clackamas Community College

Requirement	CCC Course	OSU Course	Notes
Human Anatomy and Physiology	BI 231, 232, 233	BI 231/241, 232/242, 233/243	Transfers to OSU as general BI credit, full series must be completed at CC. CBEE will honor this towards our BI 231 & 233 requirements.
Microbiology	BI 204 or 234	MB 230	
General Chemistry	CH 221, 222, 223	CH 231/261, 232/262, 233/263	Labs are under a separate course number at OSU
Organic Chemistry	CH 241, 242, 243	CH 331, 337, 332	
Engineering Orientation I and II	ENGR 111, ENGR 112	ENGR 111, ENGR 112	
Electrical Fundamentals	ENGR 201	ENGR 201	
Statics	ENGR 211	ENGR 211	
Differential, Integral, and Vector Calculus	MTH 251, 252, 254	MTH 251, 252, 254	
Introduction to Series	MTH 253	MTH 253	
Differential Equations	MTH 256	MTH 256	
Introduction to Matrix Algebra	MTH 261	MTH 264	MTH 261 transfers as general MTH credit, CBEE will honor towards our matrix algebra requirement.
Calculus-Based Physics Series	PH 211, 212, 213	PH 211, 212, 213	

Major classes that also count for Baccalaureate Core are listed on the back page.



Oregon State
University

Important Notes & Resources

Important Notes for the College and Major:

- Grade of C or better are required in all major specific courses.
- See a sample 4 year degree plan at <https://cbec.oregonstate.edu/transfer-students>
- Other similar majors to explore: Environmental and Biological Engineering
- For Bioengineering 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 major coursework.

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: oregonstate.edu/admissions/transfer.html
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at 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-clackamas-community-college

SKILL COURSES	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
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. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above.
DPD COURSES	Difference, Power, and Discrimination	Many options, see BaccCore link above.
SYNTHESIS COURSES	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.** It is important to speak with your advisor early on and often to ensure correct course selection and sequencing. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

Clackamas Community College Contact	
OSU Biological Engineering Contact	CBEE Advisors: Cbec.advising@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu