

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

CORVALLIS

Treasure Valley Community College

## Bioengineering

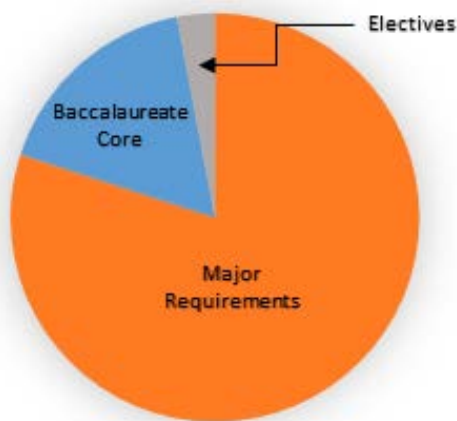
### What is Bioengineering?

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](http://catalog.oregonstate.edu)

## Courses for this Major offered at Treasure Valley Community College

Requirement	TVCC Course	OSU Course	Notes
Human Anatomy and Physiology	BIOL 231, 232, 233	BI 231/241, 232/242, 233/243	
Microbiology	BIOL 234	MB 230	
General Chemistry	CHEM 221, 222, 223	CH 231/261, 232/262, 233/263	Labs are under a separate course number at OSU
Organic Chemistry	CHEM 227, 228, 229	CH 331, 337, 332	
Differential and Integral	MATH 251, 252	MTH 251, 252	
Introduction to Series	MATH 253	MTH 253	
Calculus-Based Physics Series	PHYS 211, 212, 213	PH 211, 212, 213	

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

## 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://cbee.oregonstate.edu/transfer-students>
- Other similar majors to explore: Environmental and Chemical 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](https://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](https://partnerships.oregonstate.edu/students)
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at [\\_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-treasure-valley-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-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 SP 111 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. 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](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

Treasure Valley Community College Advisor	
OSU Biological Engineering Advisor	CBEE Advisors: <a href="mailto:cbee.advising@oregonstate.edu">cbee.advising@oregonstate.edu</a>
OSU College of Engineering Main Office	<a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a>