

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

Southwestern Oregon Community College

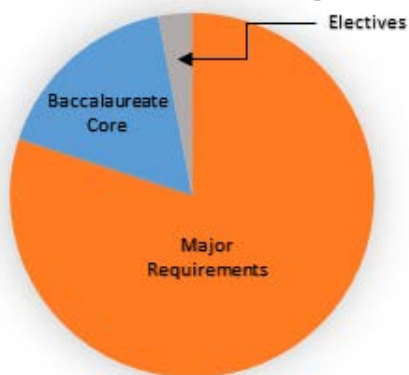
CORVALLIS

Chemical Engineering

Chemical Engineering is the engineering discipline that focuses on the science and engineering of processes to convert raw materials into valued chemicals and products on a manufacturing scale. You will study heat and fluid flow to see how they are coupled with chemical reactions

With a Chemical Engineering degree you can work in private or public sectors, including industry, government, and consulting, as well as for continued graduate study in the same or closely related fields. Common employment industries include fibers and polymers, food and drink, and pulp and paper.

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

Courses for this Major offered at Southwestern Oregon Community College

Requirement	SWOCC Course	OSU Course	Notes
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 245, 246, 247	CH 331, 337, 332	
Engineering Orientation	ENGR 111	ENGR 112	
Engineering Computations	ENGR 112	ENGR 112	
Electrical Fundamentals	ENGR 201	ENGR 201	
Statics	ENGR 211	ENGR 211	
Differential Calculus	MTH 251	MTH 251	
Integral Calculus	MTH 252	MTH 252	
Introduction to Series	MTH 253	MTH 253	
Vector Calculus	MTH 254	MTH 254	
Differential Equations	MTH 256	MTH 256	
Introduction to Matrix Algebra	MTH 260	MTH 264	
Physics with Calculus I, II, III	PH 211, 212, 213	PH 211, 212, 213	



**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://cbee.oregonstate.edu/transfer-students>
- Other similar majors to explore: Biological and Environmental Engineering
- For Chemical 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 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-southwestern-oregon-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

It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing.

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 to schedule your personalized visit.

SWOCC Advisor	
OSU Chemical Engineering Advisor	CBEE Advisors: cbee.advising@oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu