

Major Offered At:

## Southwestern Oregon Community College

**CORVALLIS**

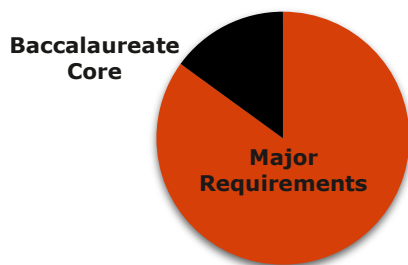
### Civil Engineering

Civil engineers plan, design, and build the systems, technologies, and structures that life depends on. The program provides instruction in a variety of disciplines, including structural engineering, surveying, highway engineering, water resources and coastal engineering, materials engineering, transportation engineering, and infrastructure design. A degree in civil engineering prepares students to join the work force immediately after graduating — or to become an academic researcher who studies civil engineering problems.

What can you do with this major?

- Design, build, and repair bridges, highways, buildings, and transportation systems
- Design infrastructure for earthquake preparedness
- Design and build stadiums and schools
- Design systems to deliver clean water to communities and industry

### 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 [cce.oregonstate.edu/content/civil-engineering](http://cce.oregonstate.edu/content/civil-engineering)

### Courses Required for Civil Engineering Major

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

Civil Engineering Core Requirements	SWOCC Equivalent Course	OSU Course	Notes
Civil & Constr. Engr: Orientation	ENGR 111	CCE 101	
CCE: Problem-Solving & Tech.	ENGR 112	CCE 102	
CCE: Graphics & Design	ENGR 245	CCE 201/ENGR 248	Available online at OSU
CCE Seminar	N/A	CCE 207	
Civil Engr: Geospatial Info & GIS	N/A	CE 202	
Electrical Fundamentals I	ENGR 201	ENGR 201	Available online at OSU
Statics	ENGR 211	ENGR 211	Available online at OSU
Dynamics	ENGR 212	ENGR 212	Available online at OSU
Strength of Materials	ENGR 213	ENGR 213	Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Integral Calculus	MTH 252	MTH 252	Available online at OSU
Vector Calculus	MTH 254	MTH 254	Available online at OSU
Applied Differential Equations	MTH 256	MTH 256	Available online at OSU
Intro to matrix Algebra	MTH 260	MTH 264	Available online at OSU
Intro to Series	MTH 253	MTH 265	Available online at OSU
Intro to Statistics for Engineers	N/A	ST 314 (LD)	LD = Lower Division Transfer, Available online at OSU
Chemistry for Engineering Majors	CH 221	CH 201	Available online at OSU
Chemistry for Engineering Majors	CH 222	CH 202	Available online at OSU
Laboratory for CH 202	CH 222L	CH 205	
General Physics (Calculus)	PH 211	PH 211	
General Physics (Calculus)	PH 212	PH 212	
General Physics (Calculus)	PH 213	PH 213	

## Courses Required for Civil Engineering Major, cont.

Civil Engineering Core Requirements	SWOCC Equivalent Course	OSU Course	Notes
English Composition	WR 121	WR 121	Available online at OSU
Technical Writing	WR 227	WR 327 (LD)	(LD) = Lower Division Transfer, Available online at OSU
Public Speaking Argument & Critical Discourse	SP 111 SP 112	COMM 111 COMM 114	Available online at OSU
Intro to Microeconomics	ECON 201	ECON 201	Available online at OSU

## Important Notes & Resources

### Important Notes for the College of Engineering and Civil Engineering Major:

- Grade requirements: Grade of C or better in all major coursework; 2.5 Cumulative GPA; 65% of courses passed. See <https://beav.es/okz> for more information
- See a sample degree plan by searching "Civil Engineering" at [admissions.oregonstate.edu/find-your-major](http://admissions.oregonstate.edu/find-your-major)
- Other similar majors to explore: [Architectural Engineering](#), [Construction Engineering Management](#)
- To maximize course access and availability, we encourage students to begin coursework at OSU through [Degree Partnership Program](#) in Winter or Spring of 2<sup>nd</sup> year, with plans to fully begin upper division coursework at OSU in Fall of 3<sup>rd</sup> year. We encourage you to talk with an OSU advisor about your specific timeline.
- It is important to speak with CCE advisors early on, and often, to ensure correct course selection and sequencing. Schedule an appointment with an OSU CCE advisor [here!](#)

### 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](http://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](http://partnerships.oregonstate.edu/students)

## 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 SWOCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college](http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college)

<b>SKILLS COURSES</b>	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 PE 291
<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 Choose one course from BaccCore link above Choose one course from BaccCore link above Completed as part of major Choose one course from BaccCore link above
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Choose one course from BaccCore link above
<b>SYNTHESIS COURSES</b>	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](http://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

<b>Southwestern Oregon Community College</b>	<a href="http://socc.edu/services/32-curry/427-academic-transfer-advising">socc.edu/services/32-curry/427-academic-transfer-advising</a>
<b>OSU Civil Engineering</b>	<a href="mailto:CCE.Advising@oregonstate.edu">CCE.Advising@oregonstate.edu</a>
<b>OSU College of Engineering Main Office</b>	<a href="mailto:askengineering@oregonstate.edu">askengineering@oregonstate.edu</a>