

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

CORVALLIS

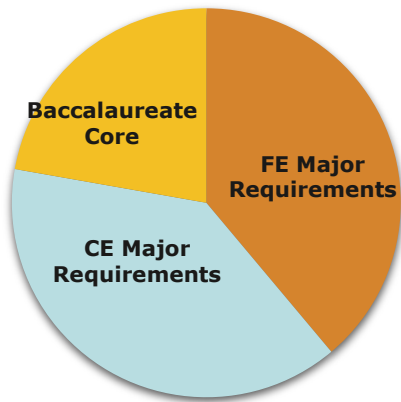
**Southwestern Oregon
Community College**

Forest - Civil Engineering Major

The Forest-Civil Engineering five year, double degree program results in a BS in Forest Engineering and a BS in Civil Engineering and is offered in cooperation with the School of Civil and Construction Engineering.

This degree expands the career opportunities of graduates by allowing them to work in both rural and urban areas, and for a wide variety of employers.

Your Bachelor's Degree (BS) in Forest-Civil Engineering



- A minimum of 235 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.
- Only courses with letter prefixes and numbers above 100 are accepted.
- Six months of work experience related to the field
- Meet admission criteria for Forest Engr Pro-School (minimum grades of C in all major courses and 2.25 GPA in major courses)
- forestry.oregonstate.edu/undergraduate-programs/fe/forest-engineering-and-civil-engineering

Courses Required for Forest-Civil Engineering Major

FE/CE Major Requirements – Years 1 & 2	SWOCC Course	OSU Course	Notes
Civil & Construction Engr Graphics & Design		CCE 201	
Chemistry for Engineering Majors I	Substitute CHEM 221	CH 201	Available online at OSU
Chemistry for Engineering Majors II	Substitute CHEM 222	CH 202	Available online at OSU
Lab for CH 202	Substitute CHEM 222	CH 205	
Public Speaking or Argument & Critical Discourse	SP 111 SP 112	COMM 111 or COMM 114	Available online at OSU Available online at OSU
Intro to Microeconomics	ECON 201	ECON 201	Available online at OSU
The Oregon State Engineering Student Design Engineering & Problem-Solving	ENGR 111	ENGR 100	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
Intro to Forest Engineering	ENGR 111	FE 101	
Forest Engineering Problem-Solving & Tech Engr Computation & Algorithmic Thinking	ENGR 112	FE 102 ENGR 103	Available online at OSU
Forest Surveying or Surveying Theory	F 222A or 222B	FE 208 CE 361	Available online at OSU
GIS and Forest Engineering Applications	GEOG 265	FE 257	Available online at OSU
Forest Biology	F 250	FES 240	Available online at OSU
Dendrology	F 241	FES 241	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 264	MTH 264	Available online at OSU
Intro to Series	MTH 264	MTH 265	Available online at OSU

FE/CE Major Requirements – Years 1 & 2	SWOCC Course	OSU Course	Notes
General Physics with Calculus I	PH 211	PH 211	
General Physics with Calculus II	PH 212	PH 212	
General Physics with Calculus III	PH 213	PH 213	
Soil Science	EV 235	SOIL 205	
Forest Soils Lab	ENV 235	FOR 206	
Intro to Statistics for Engineers		ST 314	Available online at OSU
English Composition I	WR 121	WR 121	Available online at OSU
Technical Writing	WR 227	WR 327	Available online at OSU

FE/CE Major Requirements – Yrs 3, 4 & 5	SWOCC Course	OSU Course	Notes
Civil & Construction Engineering Materials		CCE 321	
Fluid Mechanics		CE 311	
Hydraulic Engineering		CE 313	
Structural Theory I		CE 381	
Structural Theory II		CE 382	
Design of Steel Structures		CE 383	
Intro to Highway Engineering		CE 392	
Civil Engineering Professional Practice		CE 418	
Civil Infrastructure Design		CE 419	
Reinforced Concrete I		CE 481	
Transportation Engineering		CE 491	
Environmental Engineering		ENVE 321	
Forest Route Surveying		FE 310	
Forestry Field School		FE 312	
Soil Engineering		FE 315	
Soil Mechanics		FE 316	
Harvesting Process Engineering		FE 371	
Forest Road Engineering		FE 415	
Forest Road System Management		FE 416	
Forest Watershed Management		FE 434	
Forest Operations Analysis		FE 440	
Forestry Remote Sensing & Photogrammetry		FE 444	
Techniques for Forest Resource Analysis		FE 457	
Forest Management Planning & Design I		FE 459	
Forest Operations Regulations & Policy Issues		FE 460	
Forest Management Planning & Design II		FE 469	
Logging Mechanics		FE 470	
Forest Engr Practice & Professionalism		FE 480	
Forest Mensuration		FOR 321	
Forest Resource Economics I		FOR 329	
Forest Resource Economics II		FOR 332	
Silvicultural Principles		FOR 441	
Sustainability for the Common Good or Endangered Species, Society & Sustainability		GEOG 300 or FW 350	Available online at OSU Available online at OSU

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

SKILLS COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 251 @ SWOCC WR 121. Required to transfer. Completed as part of major: WR 227 @ SWOCC Completed as part of major: SP 111 or 112 @ SWOCC PE 231 @ SWOCC
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: F 250 @ SWOCC Completed as part of major: PH 211 @ SWOCC Completed as part of major: ENV 235 @ SWOCC Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: ECON 201 @ SWOCC Choose one course from Bacc Core link above
DPD COURSE	Difference, Power, & Discrimination	Choose one course from Bacc Core link above
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, & Society	Upper-division course: complete at OSU Completed as part of major: GEOG 300 or FW 350

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.

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