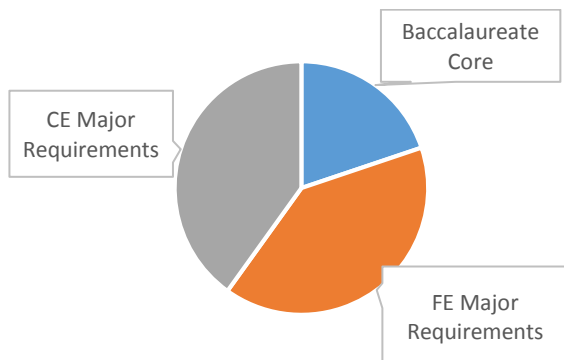




Forest Engineering & Civil Engineering Double Degree

<http://www.forestry.oregonstate.edu/academic-programs/undergraduates/forest-engineering-civil-engineering>



Degree Requirements:

- Earning two BS degrees takes 5 years and requires a minimum of 242 credits. At least 60 credits must be upper-division (300-400 level).
- Maximum of 124 community college credits applied to the degree.
- Six months of work experience related to the field.
- Meet admission criteria for Pro-Schools in FE and CE.

Forest/Civil Engineering Major Requirements – Years 1 & 2	OSU Course	Southwestern Oregon CC Course
Civil & Construction Engineering Orientation	CCE 101	
Civil Engineering II: Engineering Graphics & Design	CCE 201	ENGR 245
Chemistry for Engineering Majors I	CH 201	CHEM 221
Chemistry for Engineering Majors II with Lab	CH 202 & CH 205	CHEM 222
Public Speaking or Argument & Critical Discourse	COMM 111* or COMM 114*	SP 111 or SP 112
Intro to Microeconomics	ECON 201*	ECON 201
Statics	ENGR 211	ENGR 211
Dynamics	ENGR 212	ENGR 212
Strength of Materials	ENGR 213	ENGR 213
Intro to Forest Engineering	FE 101	ENGR 111
Forest Engineering Problem Solving & Technology	FE 102	ENGR 112
Forest Surveying	FE 208	F 222A
GIS & Forest Engineering Applications	FE 257	GEOG 265
Forest Biology	FES 240*	F 250
Dendrology	FES 241	F 241
Differential Calculus	MTH 251*	MTH 251
Integral Calculus	MTH 252	MTH 252
Vector Calculus	MTH 254	MTH 254
Applied Differential Equations	MTH 256	MTH 256
Matrix & Power Series Methods	MTH 306	MTH 253 & MTH 260
General Physics I with Calculus	PH 211*	PH 211
General Physics II with Calculus	PH 212	PH 212
General Physics III with Calculus	PH 213	PH 213
Soil Science	SOIL 205*	ENV 235
Soil Science Lab	FOR 206*	ENG 235
Intro to Statistics for Engineers	ST 314	Available online at OSU
English Composition	WR 121*	WR 121

Major requirements that fulfill Baccalaureate Core are marked with an asterisk ().*

Forest/Civil Engineering Major Requirements - Years 3, 4, 5 Pro-School Admission Required	OSU Course	SWOCC Course
Forest Route Surveying	FE 310	
Forestry Field School	FE 312	
Soil Engineering	FE 315	
Soil Mechanics	FE 316	
Harvest Process Engineering	FE 371	
Forest Watershed Management	FE 434	
Forest Operations Analysis	FE 440	
Logging Mechanics	FE 470	
Forest Mensuration	FOR 321	
Forest Resource Economics I	FOR 330	
Forest Resource Economics II	FOR 331	
Silviculture Principles	FOR 441	
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	
Environmental Engineering Fundamentals	ENVE 321	
Technical Writing	WR 327	WR 227
Civil Engineering Design elective course	Choose from a list	
Civil Engineering Professional Practice	CE 418	
Civil Infrastructure Design	CE 419	
Reinforced Concrete I	CE 481	
Transportation Engineering	CE 491	
Forest Road Engineering	FE 415	
Forest Road System Management	FE 416	
International Forestry	FE/FOR 456*	
Techniques for Forest Resource Analysis	FE/FOR 457	
Forestry Remote Sensing & Photogrammetry	FE 444	
Forest Management Planning & Design I	FE 459	
Forest Management Planning & Design II	FE 469	
Forest Policy	FOR 460*	
Forest Engineering Practice & Professionalism	FE 480	
Sustainability for the Common Good or Endangered Species, Society, and Sustainability	GEOG 300* or FW 350*	

Southwestern Oregon Community College courses that fulfill OSU's Baccalaureate Core requirements:

<http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-southwestern-oregon-community-college>

OSU Baccalaureate Core (Complete one course from each category)	OSU Course	SWOCC Course
Writing I	WR 121 English Composition	Fulfilled by major: WR 121
Writing II	WR 327	Fulfilled by major: WR 227
Speech	COMM 111 Public Speaking COMM 114 Argument & Critical Discourse	Fulfilled by major: SP 111 or SP 112
Mathematics	MTH 105 or higher	Fulfilled by major: MTH 251
Fitness	HHS 231 Lifetime Fitness for Health HHS 241 Lifetime Fitness	PE 231 PE 231
Physical Science with Lab	SOIL 205 & FOR 206	Fulfilled by major: ENV 235
Biological Science with Lab	FES 240	Fulfilled by major: F 250
Additional Science with Lab	PH 211	Fulfilled by major: PH 211
Western Culture	Choose one course from link above	
Cultural Diversity	Choose one course from link above	
Literature & Arts	Choose one course from link above	
Social Processes & Institutions	ECON 201	Fulfilled by major: ECON 201
Difference, Power, Discrimination	Choose one course from link above	
Contemporary Global Issues	Upper-division course required	Fulfilled by major: FOR 456
Science, Technology, Society	Upper-division course required	Fulfilled by major: GEOG 300 or FW 350
Writing Intensive Course – major specific	FE/FOR 460 Forest Policy	Fulfilled by major: FE/FOR 460

Pro-School

Forest Engineering and Civil Engineering include professional programs (the junior and senior years) which require special applications. Prospective students should work with OSU College of Forestry staff for assistance in navigating that process successfully. Pro-School information: <http://ferm.forestry.oregonstate.edu/application-professional-programs-forestry-and-forest-engineering>

OSU Contact: College of Forestry Student Services

541-737-1594

studyforest-civilengineering@oregonstate.edu

Transfer Student Resources: <http://transfer.oregonstate.edu/>

SWOCC Contact: Tasha Livingstone

541-888-7284

Tasha.livingstone@socc.edu