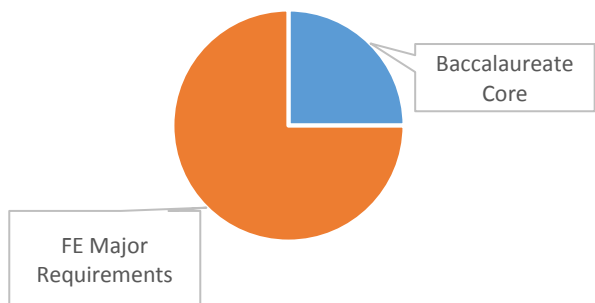




**Forest Engineering**

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



**Degree Requirements:**

- BS in Forest Engineering requires 192 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 COF Pro-School:
  - Minimum grades of C or higher in all Major Requirements
  - GPA of 2.25 or higher in Major Requirements

Forest Engineering Major Requirements: Year 1 & 2	OSU Course	Southwestern Oregon CC Course
Civil Engineering II: Engineering Graphics & Design	CCE 201	ENGR 245
Chemistry for Engineering Majors	CH 201	CHEM 221
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
Intro to Forestry	FOR 111	F 111 or NR 201
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
General Physics I with Calculus	PH 211*	PH 211
General Physics II with Calculus	PH 212*	PH 212
Soil Science	SOIL 205*	ENV 235
Soil Science Lab	FOR 206*	ENV 235
Principles of Statistics	ST 201	MTH 243
English Composition	WR 121*	WR 121
Technical Writing	WR 327*	WR 227

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

<b>Forest Engineering Major Requirements - Years 3 &amp; 4 Pro-School Admission Required</b>	<b>OSU Course</b>	<b>SWOCC Course</b>
Forest Route Surveying	FE 310	
Forestry Field School	FE 312	
Soil Engineering	FE 315	
Soil Mechanics	FE 316	
Forest Engineering Fluid Mechanics & Hydraulics	FE 330	
Harvest 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	
International Forestry	FE/FOR 456*	
Techniques for Forest Resource Analysis	FE/FOR 457	
Forest Management Planning & Design I	FE 459	
Forest Management Planning & Design II	FE 469	
Logging Mechanics	FE 470	
Harvesting Management	FE 471	
Forest Engineering Practice & Professionalism	FE 480	
Forest Mensuration	FOR 321	
Forest Resource Economics I	FOR 330	
Forest Resource Economics II	FOR 331	
Silviculture Principles	FOR 441	
Forest Policy	FOR 460*	
Sustainability for the Common Good or Endangered Species, Society, and Sustainability	GEOG 300* or FW 350*	Available online at OSU Available online at OSU

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

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

<b>OSU Baccalaureate Core</b> (Complete one course from each category)	<b>OSU Course</b>	<b>SWOCC Course</b>
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	
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 includes a professional program (the junior and senior years) which requires a special application. 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  
[studyforestengineering@oregonstate.edu](mailto:studyforestengineering@oregonstate.edu)

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

**SWOCC Contact:** Tasha Livingstone  
541-888-7284  
Tasha.livingstone@socc.edu