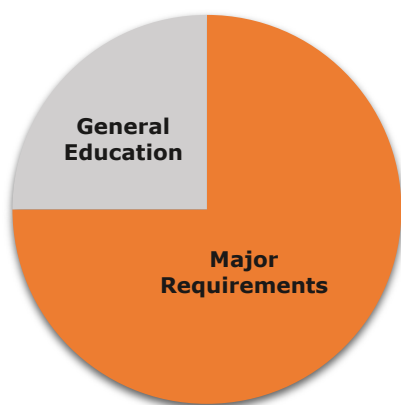**Major Offered At:**

CORVALLIS

Central Oregon Community College

Forest Engineering Major

Forest Engineers are the technical backbone of all forest operations, providing the skills and knowledge required to implement complex forest and natural resource operations. This program emphasizes analytical skills required for evaluating engineering

Systems, integrating the mechanical and economic requirements of forest operations with the biological requirements of the forest and the need to protect soil and water resources.

Your Bachelor's Degree (BS) in Forest 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.
- 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)
- More info at forestry.oregonstate.edu/undergraduate-programs/fe/forest-engineering

Courses Required for Forest Engineering Major

FE Major Requirements – Years 1 & 2	COCC Course	OSU Course	Notes
Civil & Construction Engr Graphics & Design	CIS 125A1 or CIS 135C1	CCE 201	
General Chemistry for Engineering	CH 221Z substitutes	CH 201	Available online at OSU
Chemistry for Engineering Lab	CH 227Z substitutes	CH 204	Available online at OSU
Public Speaking or	COMM 111Z or	COMM 111Z or	Available online at OSU
Argument & Critical Discourse or	COMM 114 or	COMM 114 or	Available online at OSU
Interpersonal Communication	COMM 218Z	COMM 218	Available online at OSU
Intro to Environmental Econ & Policy or		AEC 250 or	Available online at OSU
Intro to Microeconomics	EC 201	ECON 201Z	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		FE 101	
Forest Engineering Problem-Solving & Tech		FE 102	
Forest Surveying	FOR 230B	FE 208	Available online at OSU
GIS and Forest Engineering Applications	GEOG 265	FE 257	Available online at OSU
Intro to Forestry	FOR 111	FOR 111	Available online at OSU
Forest Biology	FOR 240A	FES 240	Available online at OSU
Dendrology	FOR 241A & 241B	FES 241	Available online at OSU
Differential Calculus	MTH 251	MTH 251Z	Available online at OSU
Integral Calculus	MTH 252	MTH 252Z	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
General Physics with Calculus I	PH 211	PH 211	
General Physics with Calculus II	PH 212	PH 212	
Soil Science	FOR 208	SOIL 205	
Forest Soils Lab	FOR 208	FOR 206	
Elementary Statistics	STAT 243Z	ST 243Z	Available online at OSU

Oregon State University

	COCC Course	OSU Course	Notes
English Composition I	WR 121Z	WR 121Z	Available online at OSU
Technical Writing	WR 227Z	WR 227Z	Available online at OSU

FE Major Requirements – Years 3 & 4	COCC Course	OSU Course	Notes
Beyond OSU II: Engage		FE 008	Available online at OSU
Forest Route Surveying		FE 310	
Forestry Field School		FE 312	
Soil Engineering		FE 315	
Soil Mechanics		FE 316	
Forest Engr Fluid Mechanics & Hydraulics or Ecological Fluid Mechanics		FE 330 or BEE 311	
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 Policy & Regulation		FE 463	
Forest Management Planning & Design II		FE 469	
Logging Mechanics		FE 470	
Harvesting Management		FE 471	
Forest Mensuration	FOR 235	FOR 321	
Forest Resource Economics I		FOR 329	
Forest Resource Economics II		FOR 332	
Silvicultural Principles		FOR 441	
Indigenous Agriculture & Subsistence or Inclusive & Equitable Engineering Environmental Justice or Sustainability, Justice, and Engagement		AG 311 or ENGR 330 or ENSC/GEOG 333 or SUS 331	Available online at OSU Available online at OSU Available online at OSU Available online at OSU

General Education Courses (called Core Ed)

- Complete one course in each category.
- Full listing of COCC courses that fulfill Core Ed requirements: admissions.oregonstate.edu/core-education-course-articulations-central-oregon-community-college

FOUNDATIONAL CORE	Writing Foundations	WR 121Z required
	Arts & Humanities: General	
	Arts & Humanities: Global	
	Quantitative Literacy & Analysis	Fulfilled by major: MTH 251Z
	Communication, Media & Society	Fulfilled by major: COMM 111Z, 114, or 218Z
	Social Science	Fulfilled by major: AEC 250 or EC 201Z
	Scientific Inquiry & Analysis	Fulfilled by major: FES 240
	Scientific Inquiry & Analysis	Fulfilled by major: PH 211
	Difference, Power, Oppression Foundations	
SIGNATURE CORE	Transitions	
	Beyond OSU I: Prepare	Fulfilled by major: FE 101
	Beyond OSU II: Engage	Fulfilled by major: FE 008
	Difference, Power, Oppression Advanced	Fulfilled by major: Ag 311, ENSC/GEOG 333, SUS 331
	Seeking Solutions	*Cannot be fulfilled by a major requirement*
	Writing Elevation	Fulfilled by major: WR 227Z
	Writing Intensive Course	Fulfilled by major: FE 463

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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OSU College of Forestry Student Services Office	541-737-1594 forestrystudentservices@oregonstate.edu

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