

**FOREST ENGINEERING TRANSFER, AS
OSU ADVISING GUIDE**

Prerequisites and Course Availability per Term
(for complete information, see 2016-2017 UCC Catalog)

REVISED 10/10/16

	UCC Course No. and Course Name	Term Offered				Credits	Prerequisites/Notes	OSU Course No.	Credits	
		F	W	S	S					
Term 1	CH 221	General Chemistry I /Lec/Lab/Rec	x				5	MTH 111	CH 201 / CH 231 Lec & CH 261 Lab	4
	DRF 112	Computer Aided Drafting (CAD) I	x				3	MTH 65	CCE 201 Engineering Graphics & Design	3
	ENGR 111	Engineering Orientation I	x				3	MTH 65	FE 101 Introduction to Forestry Engineering	2
	FOR/NR 201	Intro to Natural Resources	x				3		FOR 111 Introduction to Forestry	3
	MTH 251	Calculus I	x	x			5	MTH 112	MTH 251 Differential Calculus	4
Term 2	FOR/GIS 234	GIS I Intro to Geographic Information Systems		x			4		FE 257 GIS & Forestry Engineering Applications	3
	FOR/ENGR 112	Engineering Problem Solving & Technology		x			3	ENGR 111	FE 102 Forest Engr Problem Solving & Technology	3
	MTH 252	Calculus II		x	x		4	MTH 251	MTH 252 Integral Calculus	4
	WR 121	English Composition: Intro to Argument	x	x	x	x	4	WR 115 or Placement Test	WR 121 English Composition	3
	Elective ¹	Arts & Letters and Culture Diversity	x	x	x	x	3	See Advisor - AS requirement	Perspectives Elective - See Advisor	3
Term 3	MTH 243 ² or MTH 265	Intro to Probability & Statistics or Statistics for Engineerings & Scientists			x		5	MTH 105 or MTH 252	HHS 231 & HHS 241	3
	FOR/NR 141 or FOR/NR 241	Tree & Shrub Identification or Dendrology	x				5		ST 314	4
	SP 111	Public Speaking	x	x	x		4	WR 095	FES 141 Tree & Shrub Identification	3
	FOR/SUR 161	Plane Surveying I			x		4	Coreq - MTH 112	COM 111 Public Speaking	3
Term 4	FOR/NR 240	Forest Biology	x				4		FE 208 Forestry Surveying	4
	ENGR 211	Statics	x				4	MTH 112	FES 240 Forest Biology	4
	MTH 254	Vector Calculus I	x				4	MTH 252	ENGR 211 Statics	3
	PH 211	Physics I w/Calculus	x				5	MTH 251 Co-requisite	MTH 254 Vector Calculus	4
Term 5	ENGR 212	Dynamics		x			4	ENGR 211	PH 211 & PH 221 Rec	4
	MTH 256	Differential Equations		x			4	MTH 252	ENGR 212 Dynamics	3
	PH 212	Physics II w/Calculus		x			5	PH 211	MTH 256 Differential Equations	4
	FOR/SUR 209	Photogrammetry and Intro to Remote Sensing		x			4	MTH 112	PH 212 & PH 222 Rec	4
Term 6	ENGR 213	Strength of Materials			x		4	ENGR 211	FOR 209 Forest Photogrammetry	3
	ECON 201 ¹	Economics (Social Science Elective)	x			x	3	WR 121-123 & MTH 111	ENGR 213 Strength of Materials	3
	SOIL 205	Soil Science Lecture			x		3		ECON 201 - Perspectives Elective - SP&I	3
	FOR/SOIL 206	Soil Science Lab			x		1		SOIL 205 Soil Science Lecture	3
	WR 227	Technical Report Writing	x	x	x	x	4	WR 222	FOR 206 Soil Science Lab	1
HPE 295	Wellness & Health	x	x	x	x	3		WR 327	3	
TOTAL DEGREE CREDITS							107			94

Note: 104 credit hours with MTH 243 and NR 141

Additional Courses for Dual Civil Engineering and Forestry Major

	UCC Course No. and Course Name	Term Offered				Credits	Prerequisites/Notes	OSU Course No.	Credits	
		F	W	S	S					
	(3) See footnotes									
	CH 222	General Chemistry II		x			5	CH 221	CCE 101 Civil & Construction Engineering Orient	2
	MTH 253	Calculus III			x		4	MTH 252	CH 202+CH 205 Lab / CH 232 Lec & CH 262 Lab	4
	MTH 261	Linear Algebra			x		2	MTH 111 Algebra	UCC MTH 251 & MTH 261 = OSU MTH 306	4
	PH 213	Physics III w/Calculus			x		5	PH 212	See note above for MTH 306	0
TOTAL DEGREE CREDITS							16			4

Program Advisor:

NOTES:

1. Five perspective electives related to humanities/social science is a general education requirement at OSU. Additional courses could be taken at UCC, depending on maximum total credits for transfer. See advisor for specific course requirements.
2. MTH 243 transfers for FE major but not for dual FE/CE major. Need MTH 265 (statistics with calculus) for dual major.
3. UCC ENGR 111 Engineering Orientation I will transfer to OSU as either CCE 101 or FE 101 but not both. For dual Civil and Forestry Engineering majors, either CCE101 or FE 101 will need to be taken at OSU.
4. Grade of "C" or better in all courses.

Transfer Guide: Forest Engineering

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

Forest Engineering Major Requirements	OSU Course	Umpqua Course
Civil Engineering II: Engineering Graphics & Design	CCE 201	DRF 112
Chemistry for Engineering Majors	CH 201	CH 221
Public Speaking or Argument & Critical Discourse	COMM 111* or COMM 114*	SP111 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	FOR/ENGR 112
Forest Surveying	FE 208	FOR/SUR 161
Forest Photogrammetry	FE 209	FOR/SUR 209
GIS & Forest Engineering Applications	FE 257	FOR/GIS 234
Tree & Shrub Identification	FES 141	FOR/NR 241
Forest Biology	FES 240*	FOR/NR 240
Intro to Forestry	FOR 111	FOR/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*	SOIL 205
Soil Science Lab	FOR 206*	FOR/SOIL 206
Principles of Statistics	ST 201	MTH 243 or MTH 265
English Composition	WR 121*	WR 121
Technical Writing	WR 327*	WR 227

The courses above represent the first two years of a four year degree program. Transfer students should expect to complete the remaining course requirements at OSU. In addition to courses that fulfill the Forest Engineering major requirements, students should be completing courses to fulfill [OSU's Baccalaureate Core](#) (general education curriculum). Major requirements that fulfill Baccalaureate Core are marked with an asterisk ().*

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.

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