

Bachelor of Science in Forest Engineering
Department of Environmental Resources and Forest Engineering
Curriculum Effective 2008

FRESHMAN YEAR

Fall

Course	Description	Credit Hours
MAT 295	Calculus I	4
FCH 150	General Chemistry I	3
FCH 151	General Chemistry I Laboratory	1
EFB 101	General Biology	4
CLL 190	Writing and the Environment	3
FEG 132	FEG Orientation	1
	Total	16

Spring

Course	Description	Credit Hours
MAT 296	Calculus II	4
FCH 152	General Chemistry II	3
FCH 153	General Chemistry II Lab	1
PHY 211	General Physics I	3
PHY 221	General Physics Laboratory	1
FEG 133	Introduction to Engineering Design	3
Gen Ed	General Education Elective	3
	Total	18

SOPHOMORE YEAR

Fall

Course	Description	Credit Hours
MAT 397	Calculus III	4
PHY 212	General Physics II	3
PHY 222	General Physics II Laboratory	1
FOR 321	Forest Ecology and Silviculture	3
ERE 223	Statics and Dynamics	4
Gen Ed	General Education Elective	3
	Total	18

Spring

Course	Description	Credit Hours
APM 485	Differential Equations for Engineers and Scientists	3
FEG 275	Ecological Engineering I	3
ERE 362	Mechanics of Materials	3
CLL 290	Writing, Humanities and the Environment	3
Gen Ed	General Education Elective	3
	Total	15

JUNIOR YEAR

Fall

Course	Description	Credit Hours
MAE 341	Fluid Mechanics	4
ERE 371	Surveying for Engineers	4
FEG 335	Numerical and Computing Methods	3
CIE 337	Geotechnical Engineering	4
	Total	15

Spring

Course	Description	Credit Hours
FEG 340	Engineering Hydrology and Hydraulics	4
APM 391	Introduction to Probability and Statistics	3
FEG 350	Principles of Remote Sensing	4
ERE 351	Basic Engineering Thermodynamics	2
	Total	16

SENIOR YEAR

Fall

Course	Description	Credit Hours
FEG 468	Solid Waste Management	3
FEG 430	Engineering Decision Analysis	3
Gen Ed	General Education Elective	3
	Engineering Design Elective	3
	Engineering Design Elective	3
	Total	15

Spring

Course	Description	Credit Hours
FEG 489	Planning and Design	3
Gen Ed	General Education Elective	3
	Engineering Design Elective	3
	Free Elective	3
	Total	12
	Degree Total	125

Engineering Design Electives

CIE 331	Analysis of Structures and Materials
CIE 332	Design of Concrete Structures
CIE 338	Foundation Engineering
ERE 441	Air Pollution Engineering
ERE 445	Hydrologic Modeling
ERE 511	Ecological Engineering in the Tropics
ERE 551	GIS for Engineers*
ERE 596	Stormwater Management
ERE 596	Remote Sensing of the Environment
ERE 596	Digital Image Analysis
ERE 596	Ecological Engineering for Waste Management*
ERE 596	Spatial Analysis
FEG 410	Structures
FEG 412	River Classification*
FEG 448	Open Channel Hydraulics*

* Directed Engineering Design Elective

Contact Information

SUNY College of Environmental Science and Forestry
One Forestry Drive
402 Baker Lab
Syracuse, NY 13210-2787
Phone: 315.470.6633
Fax: 315.470.6958
erfeg@esf.edu