

**CURRICULUM FOR FOREST ENGINEERING OPTION
BIOSYSTEMS ENGINEERING DEPARTMENT**

FRESHMAN YEAR				
COMP 1200 Intro to Computing (PN)	2		ENGR 1110 Intro to Engineering (PN)	2
MATH 1610 Calculus I (PN)	4		MATH 1620 Calculus II (PN)	4
CHEM 1030 Chemistry 1 (PN)	3		PHYS 1600 Engr Physics 1 (PN)	4
CHEM 1031 Chemistry 1 Lab (PN)	1		ENGL 1120 English Composition II	3
HIST 1210 Tech & Civilization I	3		HIST 1220 Tech & Civilization II	3
ENGL 1100 English Composition I	3			
ENGR 1100 Engng Orientation (PN)	0			
SOPHOMORE YEAR				
BSEN 2210 Engng Methods for Biosys	2		MATH 2650 Linear Diff Eqns	3
ENGR 2010 Thermodynamics	3		ENGR 2350 Dynamics	3
ENGR 2050 Statics	3		STAT 3010 Statistics for Engineers & Scientists	3
MATH 2630 Calculus III	4		ENGR 2070 Mechanics of Materials	3
BIOL 1020 Principles of Biology	4		Fine Arts Core	3
SUMMER				
FOEN 3000 Intro to Forest Operations	2			
FOEN 3040 Forest Surveying	3			
FORY 3020 Forest Biology	2			
FORY 3050 Forest Mensuration	3			
FORY 3060 Intro to Forest Management	2			
JUNIOR YEAR				
BSEN 3210 Mech Power for Biosys	3		BSEN 3230 Natural Resource Conserv Engng	3
BSEN 3310 Hydraulic Transport in Biosys	4		ENGL 2200 World Literature II	3
FORY 3180 Measurements I	3		ECON 2020 Principles of Microeconomics	3
ENGL 2200 World Literature I	3		CIVL 3310 Geotechnical Engng 1 (F) OR	4
FORY 3100 Dendrology (F) OR	3		BSEN 3610 Instrumentation & Controls Biosys. (P)	3
FOPR 3390 Wood Science (P)	3		BSEN 2240 Biol Bioenvr Heat & Mass Transf. (P)	3
SENIOR YEAR				
BSEN 5220 Geospatial Tech for Biosys	3		BSEN 4310 Engng Design for Biosystems	3
BSEN 4300 Professional Pract in Biosys Eng.	2		Forest Engineering Elective	3
FOEN 5710 Timber Harvesting Methods	3		PHIL 1020/1040 Ethics	3
BSEN 4560 Site Design for Biosys (F) OR	3		Social Science Core*	3
FOPR 4200 Forest Products Utilization (P)	3		UNIV 4AA0 EN1 Undergrad Graduation	0
FORY 5230 Silviculture (F) OR	4			
FOEN 5230 Engineered Wood Structures (P)	3			

Total SEMESTER HOURS: 131 (F) or 132 (P): F denotes Forest Emphasis, P denotes Products Emphasis
(PN) denotes courses required for pre-engineering

Date:

*Students must complete a Core course that addresses Auburn University General Education Student Learning Outcome 9

Electives: See advisor for approved course listing

BSEN 3610 Instrumentation and Controls in Biosystems	BSEN 4230 Waste Management Utilization
FOEN 5230 Engineered Wood Structures	BSEN 4250 Hydraulic Control Systems Design
BSEN 4970 Special Topics on Biomass and Bioenergy	BSEN 4260 Renewable Energy Engineering in Biosys
BSEN 4510 Ecological Engineering	INSY 3600 Engineering Economy
FOEN 4560 Site Design	CIVL 3310 Geotechnical Engineering 1
BSEN 3240 Process Engng in Biosystems	