

CURRICULUM FOR BIOSYSTEM ENGINEERING (BSEN) PATHWAY

FRESHMAN YEAR				
COMP 1200 Intro to Computing (P)	2		ENGR 1110 Intro to Engineering (P)	2
MATH 1610 Calculus 1 (P)	4		MATH 1620 Calculus II (P)	4
CHEM 1030 Chemistry 1 (P)	3		PHYS 1600 Engr Physics 1 (P)	4
CHEM 1031 Chemistry 1 Lab (P)	1		ENGL 1120 English Composition II	3
HIST 1210 Tech & Civilization 1	3		HIST 1220 Tech & Civilization II	3
ENGL 1100 English Composition 1	3			
ENGR 1100 Engng Orientation (P)	0			
SOPHOMORE YEAR				
BSEN 2210 Engng Methods for Biosys	2		BSEN 2240 Biol Bioenvr Heat & Mass Transf.	3
ENGR 2010 Thermodynamics	3		ENGR 2070 Mechanics of materials	3
ENGR 2050 Statics	3		ENGR 2350 Dynamics	3
MATH 2630 Calculus III	4		MATH 2650 Linear Diff Eqns	3
BIOL 1020 Principles of Biology	4		BIOL 1030 Organismal Biology	4
SUMMER				
ECON 2020 Principles of Microeconomics	3			
CHEM 1040 Chemistry II	3			
STAT 3010 Statistics for Engineers & Scientists	3			
PHIL 1020/1040	3			
JUNIOR YEAR				
BSEN 3210 Mech Power for Biosys	3		BSEN 3230 Natural Resource Conserv Engng	3
BSEN 3310 Hydraulic Transport in Biosys	4		BSEN 3240 Process Engng in Biosys	3
BIOL 3200 Microbiology	4		BSEN 3610 Instrumentation & Controls Biosys.	3
AGRN 2040 Basic Soil Science	4		ENGL 2200 World Lit 1	3
			Fine Arts Core	3
SENIOR YEAR				
BSEN 5220 Geospatial Tech for Biosys	3		BSEN 4230 Waste Management & Utiliz Engng.	3
BSEN 4210 Irrigation Systems Design	3		BSEN 4310 Engng Design for Biosystems	3
BSEN 4300 Prof. Practice in Biosys Engng.	2		Biosystems Engng Elective Group 2	3
Biosystems Engng Elective Group 1	3		Social Science Core*	3
ENGL 2210 World Lit II	3		UNIV 4AA0 EN1 Undergrad Graduation	0

Total of 132 SEMESTER HOURS

Date:

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

(P) denotes courses required for pre-engineering

Biosystems Electives: See advisor for approved course listing

Group 1	Group 2
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