BIOSYSTEMS ENGINEERING

Courses highlighted below are available at Wofford College Curriculum Example*

FRESHMAN YEAR					
4 CH 1010 General Chemistry	4 CH 1020 General Chemistry				
3 ENGL 1030 Accelerated Composition	3 ENGR 1410 Programming and Problem Solving ¹				
2 ENGR 1020 Engineering Discipline and Skills ¹	2 ENGR 2100 Computer-Aided Design and Engineering				
4 MATH 1060 Calculus of One Variable I	Applications				
3 Gen Ed ⁴	4 MATH 1080 Calculus of One Variable II				
16	3 PHYS 1220 Physics with Calculus I				
	16				
SOPHOMOR	E YEAR				
2 BE 2120 Fundamentals of Biosystems Engr.	2 BE 2100 Intro. to Biosystems Engineering				
3 CE 2010 Statics ²	2 CE 2080 Dynamics ²				
4 MATH 2060 Calculus of Several Variables	4 MATH 2080 Int. to Ordinary Differential Eqtns				
3 PHYS 2210 Physics with Calculus II	3 ME 3100 Thermodynamics and Heat Transfer				
4 Biology Requirement ³	4 MICR 3050 General Microbiology				
16	15				
JUNIOR YEAR					
3 BE 3200 Principles and Practices of Geomatics	3 BE 3220 Small Watershed Hydrology & Sedimentology				
3 BE 4100 Biol. Kinetics and Reactor Modeling	3 BE 4120 Heat & Mass Transport in Biosystems Engr.				
3 BIOL 4410 Ecology	3 BE 4150 Instrumentation and Process Control for				
4 CE 3410 Introduction to Fluid Mechanics	Biosystems Engineering				
2 ECE 2070 Basic Electrical Engineering	3 BE 4380 Bioprocess Engineering Design				
1 ECE 2080 Basic Electrical Engineering Lab.	3 CH 2230 Organic Chemistry				
16	1 CH 2270 Organic Chemistry Laboratory				
	16				
SENIOR Y	EAR				
3 BCHM 3050 Biochemistry	9 Gen Ed4				
3 BE 4280 Biochemical Engineering					
2 BE 4740 Biosystems Engr. Design/Project Mgt.					
2 BE 4750 Biosystems Engr. Capstone Design	3 Engineering Requirement ⁵				
2 BIOL 4340 Biol. Chemical Lab. Techniques	3 Global Sustainability Requirement ⁶				
4 CE 2060 Structural Mechanics	15 126 Tatal Carrata Nation				
16 All Clemson engineering students begin in our General Engir $$ eering program a	nd move into their specified major once the 126 Total Semester Hours				
departmental standards are completed. Clemson courses ENGL 1030, MATH- and ENGR 1410/or CHE 1300 must all be completed with a "C" or higher bet ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1410; ENGR 1050 and ME 2010 may be substituted for CE 2010 and CE 2080 BIOL 1030/BIOL 1050 or BIOL 1100	fore declaring and starting courses in your engineering major.				
⁴ Students should choose courses to fulfill General Education requirements including Human	ities, Social Science, Cross-Cultural Awareness and Science and Technology in				
society components. See Undergraduate Announcements and academic advisor for details.	,				
Select from BE 3140, BE 4080, BE 4140, BE 4170, BE 4220, BE 4400, BE 4640, BE 4730, BE 4 EES 4300, EES 4800, EES 4840, EES 4850, EES 4860, GEOL 4210, IE 3840, or any 3000- or 400					

6 Select CU 2010 or any course from the Sustainability Minor course list.

^{*}See catalog for current curriculum at catalog.clemson.edu

General Education Requirements						
LIT	Non-Lit	SS1	SS2	Sustainability Req	CCA	STS

Comments: