



College of: Engineering, Architecture & Technology Degree/Major: B.S. - Biosystems Engineering
 Option: Bioprocessing & Food Processing Academic Year: 2015-16

Proposed* Four-Year Degree Plan

Year One					
Fall Semester			Spring Semester		
BAE	1012	Introduction to Biosystems Engineering	BAE	1022	Experimental Methods in Biosystems Eng
MATH	2144	Calculus I	MATH	2153	Calculus II
BIOL	1114	Introductory Biology	PHYS	2014	General Physics I
HIST	1103	Survey of American History	CHEM	1414	General Chemistry for Engineers
ENGL	1113	Freshman Composition I	ENGR	1322	Engineering Design with CAD
			ENGL	1213	Freshman Composition II
Total: 16 credit hours			Total: 18 credit hours		

Year Two					
Fall Semester			Spring Semester		
BAE	2013	Modeling in Biosystems Engineering	BAE	2023	Physical Properties of Biological Materials
MATH	2163	Calculus III	MATH	2233	Differential Equations
PHYS	2114	General Physics II	ENSC	2143	Strength of Materials
ENSC	2213	Thermodynamics	ENSC	3233	Fluid Mechanics
ENSC	2113	Statics	POLS	1113	American Government
Total: 16 credit hours			Total: 15 credit hours		

Year Three					
Fall Semester			Spring Semester		
BAE	3113	Biological Applications in Engineering	BAE	3213	Energy & Power in Biosystems Engineering
BAE	3313	Natural Resources Engineering	BAE	3023	Instruments and Controls
ENSC	2613	Introduction to Electrical Science	BAE	3013	Heat & Mass Transfer Biological Systems
STAT	2013	Elementary Statistics	CHEM	3013	The Chemistry of Organic Compounds
¹ S/D/H/I		6 hours	IEM	3503	Engineering Economic Analysis
			S/D/H/I		3 hours
Total: 18 credit hours			Total: 18 credit hours		

Year Four					
Fall Semester			Spring Semester		
BAE	4001	Professional Practice in Biosystems Eng	BAE	4023	Senior Engineering Design Project II
BAE	4012	Senior Engineering Design Project I	BAE	4283	Bioprocess Engineering
MICR	2123	Introduction to Microbiology	BIOC	2344	Chemistry & Applications of Biomolecules
MICR	2132	Introduction of Microbiology Laboratory			
² CONTR ELECTIVE		6 Hours	² CONTR ELECTIVE		5 hours
¹ S/D/H/I		3 hours			
Total: 17 credit hours			Total: 15 credit hours		

Note 1: 6 hours (S), 6 hours (H), meet (I) and (D) requirements in the selection of (S) and (H) coursework.

Note 2: Controlled Elect–engineering &/or science electives to be selected from an approved list upon consultation w/an advisor.

Total Hours = 133 hours

*This plan is an example of how a student may successfully complete degree requirements in four years. Students are responsible for completing requirements in the official degree sheet for each major. It is mandatory for a student to meet with an academic advisor prior to course enrollment each semester.