



College of: Engineering, Architecture & Technology Degree/Major: B.S. – Biosystems Engineering
 Option: Pre-Medical Academic Year: 2017-2018

Proposed* Four-Year Degree Plan

Year One					
Fall Semester			Spring Semester		
HIST	1103	Survey of American History	CHEM	1515	General Chemistry
MATH	2144	Calculus I	PHYS	2014	General Physics I
BAE	1012	Introduction to Biosystems Engineering	MATH	2153	Calculus II
BIOL	1114	Introductory Biology	BAE	1022	Experimental Methods in Biosystems Eng
ENGL	1113	Freshman Composition I	ENGL	1213	Freshman Composition II
Total: 16 credit hours			Total: 17 credit hours		

Year Two					
Fall Semester			Spring Semester		
ENSC	2213	Thermodynamics	ENSC	2613	Introduction to Electrical Science
ENSC	2113	Statics	ENSC	3233	Fluid Mechanics
PHYS	2114	General Physics II	MATH	2233	Differential Equations
MATH	2163	Calculus III	BAE	2023	Physical Properties of Biological Materials
BAE	2013	Modeling in Biosystems Engineering	POLS	1113	American Government
			ENGR	1332	Engineering Design with CAD
Total: 16 credit hours			Total: 17 credit hours		

Year Three					
Fall Semester			Spring Semester		
ENSC	2143	Strength of Materials	BAE	3013	Heat & Mass Transfer Biological Systems
BAE	3213	Energy & Power	BAE	3023	Instruments and Controls
STAT	4073	Engr Stat with Design of Experiments	CHEM	3053	Organic Chemistry
BIOL	1604	Animal Biology	IEM	3503	Engineering Economic Analysis
¹ H/I/D		3 hours	¹ S/I/D		3 hours
			² A/H/N/S		3 hours
Total: 16 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	4---	3 hours
MICR	2123	Introduction to Microbiology	BIOC	3653	Survey of Biochemistry
CHEM	3153	Organic Chemistry	CHEM	3112	Organic Chemistry Laboratory
BAE	4---	2 hours	³ A/N		3 hours
¹ D/H/I		3 hours			
Total: 14 credit hours			Total: 14 credit hours		

Note 1: 6 hours (H), 3 hours (S), meet (I) and (D) requirements in the selection of (H) and (S) coursework.

Note 2: 3 hours (A), (H), (N), or (S)

Note 3: 3 hours (A) or (N)

Note 4: Controlled Elect – engineering &/or science electives to be selected from an approved list upon consultation with an advisor.

Total Hours = 128 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.