BIOSYSTEMS ENGINEERING: BIOSYSTEMS ENGINEERING,

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00

Total Hours: 121

General Education Requirements English Composition See Academic Regulation 3.5 (http://catalog.okstate.edu/		
See Academic Regulation 3.5 (http://catalog.okstate.edu/		
university-academic-regulations/#english-composition)		
ENGL 1113 Composition I	3	
or ENGL 1313 Critical Analysis and Writing I		
Select one of the following:		
ENGL 1213 Composition II		
ENGL 1413 Critical Analysis and Writing II		
ENGL 3323 Technical Writing		
American History & Government		
Select one of the following:	3	
HIST 1103 Survey of American History		
HIST 1483 American History to 1865 (H)		
HIST 1493 American History Since 1865 (DH)		
POLS 1113 American Government	3	
Analytical & Quantitative Thought (A)		
MATH 2144 Calculus I (A)	4	
MATH 2153 Calculus II (A)	3	
MATH 2163 Calculus III	3	
Humanities (H)		
Courses designated (H)	6	
Natural Sciences (N)		
Must include one Laboratory Science (L) course		
CHEM 1414 General Chemistry for Engineers (LN)	4	
Select four hours from the following:	4	
BIOL 1113 Introductory Biology (N) & BIOL 1111 and Introductory Biology Laboratory (LN)		
BIOL 1114 Introductory Biology (LN)		
PBIO 1404 Plant Biology (LN)		
Social & Behavioral Sciences (S)		
Any course designated (S)		
Additional General Education		
Courses designated (A), (H), (N), or (S)		
Hours Subtotal		
Diversity (D) & International Dimension (I)		
May be completed in any part of the degree plan		
Select at least one (D) course		

College/Department	ol Doguiromento	
Basic Science	ai Requirements	
PHYS 2014	Heimerita Dharing L (LN)	4
	University Physics I (LN)	
PHYS 2114	University Physics II (LN)	4
Mathematics	P.W. 1.1E 1.	0
MATH 2233	Differential Equations	3
Engineering & Enginee	-	
ENGR 1332	Engineering Design with CAD for MAE	2
ENSC 2113	Statics	3
ENSC 2143	Strength of Materials	3
ENSC 2213	Thermodynamics	3
ENSC 2613	Introduction to Electrical Science	3
ENSC 3233	Fluid Mechanics	3
Biosystems Enginee	ring	
BAE 1012	Course BAE 1012 Not Found	2
BAE 1022	Experimental Methods in Biosystems Engineering	2
BAE 2013	Computational Methods in Biosystems Engineering	3
BAE 3033	Advanced Biology and Material Science of Biomaterials	3
Hours Subtotal		38
Major Requirements		
Common Professiona	l School	
STAT 4033	Engineering Statistics	3
or STAT 4073	Engineering Statistics with Design of Experi	ments
IEM 3503	Engineering Economic Analysis	3
BAE 3013	Heat and Mass Transfer in Biological Systems	3
BAE 3023	Instruments and Controls	3
BAE 3213	Energy and Power in Biosystems Engineering	3
BAE 4001	Professional Practice in Biosystems Engineering	1
BAE 4012	Senior Engineering Design Project I	2
BAE 4023	Senior Engineering Design Project II	3
Specific Professional		
BAE 3223	Principles of Agriculture and Off-Road Machinery	3
BAE 4224	Machinery for Production and Processing	4
ENSC 2123	Elementary Dynamics	3
BAE 4314	Design Hydrology	4
BAE 4283	Bioprocess Engineering	3
BAE 4413	Food Engineering	3
Hours Subtotal	5 5	41
Total Hours		121

Other Requirements

- · A minimum 2.0 Technical GPA. The Technical GPA is calculated from all BAE prefixes or substitutions to BAE courses.
- · A grade of "C" or better is required in following courses: BAE 2013, BAE 3013, BAE 3023, BAE 3033, BAE 3213, ENSC 2113, ENSC 2143, ENSC 2213, ENSC 2613, ENSC 3233.

- Students are required to complete the Fundamentals of Engineering (FE) exam prior to graduation.
- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at
 the time of matriculation and any changes that are made, so long as
 these changes do not result in semester credit hours being added or
 do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2030.