BIOSYSTEMS ENGINEERING: ENVIRONMENTAL AND NATURAL RESOURCES, BSBE

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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: 125

General Education Requirements English Composition See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I 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 3233 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) MATH 2153 Calculus II (A) MATH 2163 Calculus III Humanities (H) Courses designated (H) Courses designated (H) Select four hours from the following: BIOL 1111 Introductory Biology (N) & BIOL 1111 and Introductory Biology (LN) PBIO 1404 Plant Biology (LN) Social & Behavioral Sciences (S) Any course designated (A), (H), (N), or (S) 3 Additional General Education Courses designated (A), (H), (N), or (S) 4 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one International Dimension (I) course	Code	Title	Hours
See Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition) ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I Select one of the following: 3 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 (A) 3 MATH 2163 Calculus III (A) 4 Mathuranities (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 Introductory Biology (LN) PBIO 1404 Plant Biology (LN) PBIO 1404 Plant Biology (LN) Social & Behavioral Sciences (S) Any course designated (A), (H), (N), or (S) 3 Hours Subtotal the services of the degree plan Select at least one Diversity (D) course	General Education R	equirements	
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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) 3 Additional General Education Courses designated (A), (H), (N), or (S) 3 Hours Subtotal 42 Diversity (D) & International Dimension (I) May be completed in any part of the degree plan Select at least one Diversity (D) course	Humanities (H)		
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May be completed in any part of the degree plan Select at least one Diversity (D) course			42
Select at least one Diversity (D) course	Diversity (D) & Interr	national Dimension (I)	
	May be completed in	any part of the degree plan	
Select at least one International Dimension (I) course	Select at least one D	iversity (D) course	
	Select at least one Ir	nternational Dimension (I) course	

College/Departmental Requirements

College/Departmenta	I Requirements	
Basic Science		
PHYS 2014	University Physics I (LN)	4
PHYS 2114	University Physics II (LN)	4
Mathematics		
MATH 2233	Differential Equations	3
Engineering & Engineer	ring Science	
ENGR 1322	Engineering Design with CAD	2
or ENGR 1332	Engineering Design with CAD for MAE	
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 Engineerin	ng	
BAE 1012	Introduction to Biosystems Engineering	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 Professional	School	
STAT 4033	Engineering Statistics	3
or STAT 4073	Engineering Statistics with Design of Experiment	ts
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 S	School	
BAE 4314	Design Hydrology	4
BAE 4324	Water Quality Engineering	4
BAE 4323	GIS for Water Resources	3
CIVE 3833	Applied Hydraulics	3
NREM 3013	Applied Ecology and Conservation	3
or NREM 4033	Ecology Of Invasive Species	
SOIL 2124	Fundamentals of Soil Science (N)	4
Select one of the follo	owing:	3
AST 2313	Surveying	
AST 4203	Agricultural Water Management	
BAE 4343	Environmental Contaminant Fate and Transport	
CIVE 3714	Introduction to Geotechnical Engineering	
CIVE 3813	Environmental Engineering Science	
CIVE 4013	Aquatic Chemistry	

Total Hours		125
Hours Subtotal		45
SOIL 4463	Soil and Water Conservation	

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 2029.