## BIOSYSTEMS ENGINEERING: BIOSYSTEMS ENGINEERING, BSBE

**Requirements for Students Matriculating in or before Academic Year 2019-2020.** Learn more about University Academic Regulation 3.1 ([http://catalog.okstate.edu/university-academic-regulations/#matriculation](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/university-academic-regulations/#english-composition](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 3323 Technical Writing

**American History & Government**  
Select one of the following:  
HIST 1103 Survey of American History  
HIST 1483 American History to 1865 (H)  
HIST 1493 American History Since 1865 (DH)  
POLS 1113 American Government

**Analytical & Quantitative Thought (A)**  
MATH 2144 Calculus I (A)  
MATH 2153 Calculus II (A)  
MATH 2163 Calculus III

**Humanities (H)**  
Courses designated (H)  
Natural Sciences (N)  
Must include one Laboratory Science (L) course  
CHEM 1414 General Chemistry for Engineers (LN)

**Social & Behavioral Sciences (S)**  
Any course designated (S)

**Additional General Education**  
Courses designated (A), (H), (N), or (S)

### Hours Subtotal  
38

### Major Requirements

**Common Professional School**  
STAT 4033 Engineering Statistics  
or STAT 4073 Engineering Statistics with Design of Experiments  
IEM 3503 Engineering Economic Analysis  
BAE 3013 Heat and Mass Transfer in Biological Systems  
BAE 3023 Instruments and Controls  
BAE 3213 Energy and Power in Biosystems Engineering  
BAE 4001 Professional Practice in Biosystems Engineering  
BAE 4012 Senior Engineering Design Project I  
BAE 4023 Senior Engineering Design Project II  

**Specific Professional School**  
BAE 3223 Principles of Agriculture and Off-Road Machinery  
BAE 4224 Machinery for Production and Processing  
ENSC 2123 Elementary Dynamics  
BAE 4314 Design Hydrology  
BAE 4283 Bioprocess Engineering  
BAE 4413 Food Engineering

### Hours Subtotal  
41

### Total Hours  
121

1. Courses that must be completed prior to admission to professional school.  
2. Complete ENSC 2113 Statics, ENSC 3233 Fluid Mechanics, and 2 other ENSC courses prior to admission to Professional School.

### Other Requirements

- Admission to Professional School is required.  
- Refer to the OSU Catalog corresponding to your matriculation date for detailed admission requirements.  
- A minimum grade of "C" is required in each course that is a prerequisite for a major course.
• 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; one-fourth 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 2025.