BIOSYSTEMS ENGINEERING: PRE-MEDICAL, 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).

Minimum Overall Grade Point Average: 2.00
Total Hours: 125

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I 1</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
<td></td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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American History & Government
Select one of the following:

- HIST 1103 | Survey of American History                    | 3     |
- 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) 1                              | 4     |
- MATH 2153 | Calculus II (A) 1                             | 3     |
- MATH 2163 | Calculus III 1                                | 3     |

Humanities (H)
Courses designated (H) 6

Natural Sciences (N)
Must include one Laboratory Science (L) course

- CHEM 1515 | Chemistry II (LN)                            | 5     |
- BIOL 1114 | Introductory Biology (LN)                    | 4     |

Social & Behavioral Sciences (S)
Any course designated (S) 3

Additional General Education
Courses designated (A), (H), (N), or (S) 3

Hours Subtotal 43

Diversity (D) & International Dimension (I)
May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

College/Departmental Requirements

Basic Science

- PHYS 2014 | University Physics I (LN) 1                   | 4     |
- PHYS 2114 | University Physics II (LN) 1                  | 4     |

Mathematics

- MATH 2233 | Differential Equations                        | 3     |

Engineering & Engineering Science 2

- ENGR 1332 | Engineering Design with CAD for MAE           | 2     |
- ENSC 2113 | Statics 1                                     | 3     |
- ENSC 2143 | Strength of Materials                          | 3     |
- ENSC 2213 | Thermodynamics                                 | 3     |
- ENSC 2613 | Introduction to Electrical Science            | 3     |
- ENSC 3233 | Fluid Mechanics 1                             | 3     |

Biosystems Engineering

- BAE 1012 | Introduction to Biosystems Engineering        | 2     |
- BAE 1022 | Experimental Methods in Biosystems Engineering| 2     |
- BAE 2013 | Modeling in Biosystems Engineering 1          | 3     |
- BAE 3033 | Advanced Biology and Material Science of Biomaterials | 3

Total Hours 125

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.