BIOSYSTEMS ENGINEERING:
BIOSYSTEMS ENGINEERING, BSBE

Requirements for Students Matriculating in or before Academic Year 2021-2022. 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
<td>3</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>
<td></td>
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</tbody>
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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                             |

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)            |
- BIOL 1114 | Introductory Biology (LN)                       |
| or 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: 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

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; 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 2027.