# Undergraduate Curriculum in Biological Systems Engineering

**Pre-Professional and Pre-Graduate Option**

2016-2017 Catalog  
Total Credits 128

## First Year (32 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>R Engr 101</td>
<td>1</td>
<td>Orientation (FS)</td>
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<tr>
<td>A B E 170</td>
<td>3</td>
<td>Graphics and Design (FS)</td>
</tr>
<tr>
<td>Math 165</td>
<td>4</td>
<td>Calculus I (FSSS)</td>
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<tr>
<td>Chem 167</td>
<td>5</td>
<td>General Chemistry (FS)</td>
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<tr>
<td>Chem 167L</td>
<td>3</td>
<td>General Chemistry Lab (FS)</td>
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<tr>
<td>Engl 150</td>
<td>3</td>
<td>Crit. Think. and Comm. (FSSS)</td>
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<tr>
<td>Lib 160</td>
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<td>Information Literacy (FSSS)</td>
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## Second Year (33 cr.)

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<tbody>
<tr>
<td>A B E 216</td>
<td>3</td>
<td>Fund. Ag. and Biol. Engineering (F)</td>
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<td>EM 274</td>
<td>3</td>
<td>Statics of Engineering (FSSS)</td>
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<td>Stat 305</td>
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<tr>
<td>Phys 222</td>
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<td>Classical Physics II (FSSS)</td>
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<td>Biol 212</td>
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<td>Principles of Biology II (FSSS)</td>
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<tbody>
<tr>
<td>A B E 316</td>
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<td>Applications and Systems Modeling (FS)</td>
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<tr>
<td>A B E 363</td>
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<td>Electric Power and Electronics (FS)</td>
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<td>EM 327</td>
<td>3</td>
<td>Mechanics of Materials Lab (FSSS)</td>
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<td>Chem 331</td>
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<td>Organic Chemistry I (FSSS)</td>
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<td>SS&amp;H Elective</td>
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## Fourth Year (31 cr.)

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<tr>
<td>A B E 415</td>
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<td>Ag &amp; Biosystems Engr. Design I (FS)</td>
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<tr>
<td>A B E 404</td>
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<td>Instrumentation for Ag and Bio Engr (F)</td>
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<td>A B E 480</td>
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<td>Engineering Analysis of Bio Systems (F)</td>
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<td>Heat/Mass Transport Sequence II</td>
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*Please check the current catalog and Schedule of Classes for most recent offerings*