BIOLOGICAL ENGINEERING
PROGRAM PROGRESS FORM
(Appplies to students matriculating in the Fall Semester of 2018 or later)

Name: 
E-mail: 
Empl ID: 
Last Revised: 
Advisor: 
Minor: 
Antic. Grad Date: 
Focus: 
Double Major: 

<table>
<thead>
<tr>
<th>Course Title and Required Credits</th>
<th>Course</th>
<th>Grade</th>
<th>Credit Hours</th>
<th>Total Credits</th>
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<tbody>
<tr>
<td>1. Mathematics: 16 credits</td>
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<tr>
<td>Calculus for Engineers*</td>
<td>MATH 1910</td>
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<tr>
<td>Calculus for Engineers*</td>
<td>MATH 1920</td>
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<tr>
<td>Engineering Math* (Diff. Equations)</td>
<td>MATH 2930</td>
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<tr>
<td>Engineering Math* (Linear Algebra)</td>
<td>MATH 2940</td>
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<td>*Must earn at least a C- or repeat course</td>
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<td>2. Physics: 8 credits</td>
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<tr>
<td>Mechanics</td>
<td>PHYS 1112</td>
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<tr>
<td>Heat/Electromagnetism</td>
<td>PHYS 2213</td>
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<td>3. Chemistry: 7 credits</td>
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<tr>
<td>General Chemistry</td>
<td>CHEM 2070 or 2090</td>
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<td>Organic Chemistry</td>
<td>CHEM 1570, 3530 or 3570</td>
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<td>4. Biological Sciences: 15 credits</td>
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<td>Introductory Biological Science</td>
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<td>Introductory Bio Lab</td>
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<tr>
<td>Biochemistry</td>
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<td>BIOMG 3300 (4) or 3330 (4) or 3310+3320 (5) or 3350 (4)</td>
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<td>Advanced Biol. Sci. Elective (to complete 15 cr)</td>
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<td>5. First Year Writing Seminars (FWS): 6 credits</td>
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<td>6. Liberal Studies: 18 credits (Minimum of six courses in at least three of the seven groups; at least two of the six courses at or above 2000 level.)</td>
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(1) Cultural Analysis (CA) 
(2) Historical Analysis (HA) 
(3) Literature and the Arts (LA) 
(4) Knowledge, Cognition and Moral Reasoning (KCM) 
(5) Social & Behavior and Analysis (SBA) 
(6) Foreign Languages (not literature) (FL) 
(7) Communications in Engineering (CE)
7. **Computer Programming:** 4 credits
   Intro to Computer Programming  
   CS 1112  

8. **Engineering Distribution and Field Courses:** 48 credits
   
   *(a) Required Courses*
   - Mechanics of Solids  
     ENGRD 2020
   - Engineering Statistics and Probability  
     CEE 3040 or ENGRD 2700
   
   *(b) Required Biological Engineering Core Courses*
   - Intro to Engineering  
     ENGRI 1xxx
   - Thermodynamics  
     BEE 2220, ENGRD 2210,  
     CHEME 3130 or MSE 3030
   - Engineering Distribution  
     BEE 2600 or BEE 2510
   - Bio-Fluid Mechanics  
     BEE 3310
   - Design and Analysis of Biomaterials  
     BEE 3400
   - Heat and Mass Transfer in BioEng  
     BEE 3500
   - Molecular and Cellular BioEng  
     BEE 3600
   - Bioinstrumentation  
     BEE 4500
   
   *(c) Biological Engineering Focus Area Electives*
   - 15 or more credits of courses from 1 or more of the 7 focus areas to complete the 48 engineering credits
   - Focus Area elective 1
   - Focus Area elective 2
   - Focus Area elective 3
   - Focus Area elective 4
   - Focus Area elective 5

   **GRAND Total Credits:** 0
   (Minimum 128)

   - Technical Writing Course
   - Capstone Design Course
   - EHS Online Lab Safety Training (2555)
   - BEE 1200 (CALS freshman)
   - ENGRG 1050 (ENG freshman)
   - PE
   - PE

   *Engineering distribution requirement is satisfied by ENGRD 2020 and ENGRD 2600 or ENGRD 2510

   Only 1 D allowed in major (categories 2-4, 7 and 8).

   If you receive more than 1 D, you will have to take one of the courses over.

   **Courses not needed for graduation**