Program: Biomedical/Bioengineering  
CIP: 14.0501  
Track: 1  
Offered At:  
- USF*  
- FIU  
- FGCU  
- FAMU, FSU  
- UF*  
Program Length: 120 Cr. Hrs.  

Revised 9/1/2011  
Technical course addition 10/23/2013  
REVISED 10/28/15  
Technical revision 7/6/2018  
Revised 10/24/2018  
Technical 12/20/2018  
Technical change 6/13/2019  
Technical 6/19/2019  
Technical 9/23/2019  
Technical 9/24/2019  

### LOWER LEVEL COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
<th>Description</th>
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<tbody>
<tr>
<td>MACX311</td>
<td>4</td>
<td>Calculus I with Analytical Geometry</td>
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<tr>
<td>MACX312</td>
<td>4</td>
<td>Calculus II with Analytical Geometry</td>
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<td>MACX313</td>
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<td>Calculus III with Analytical Geometry</td>
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<td>MACX282</td>
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<td>MACX283</td>
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Select from the following:

- MAPX302 3 Differential Equations
- MAPX305 3 Different Equations for Engineers
- ECHX301 3 Intro to Process Analysis and Design

Natural Sciences:

- CHMX045C 4 Chemistry I & lab  
  Take both courses:  
  - CHMX045 2  
  - CHMX045L 2
- CHMX046C 4  
  Take both courses:  
  - CHMX046 2  
  - CHMX046L 2

Take all of the following:

- PHYX049 4  
  Select from the following:  
  - PHYX049L 1  
  - PHYX064L 1
- PHYX049C 5  
  Physics Laboratory II  
  Take all of the following:  
  - PHYX049 4  
  Select from the following:  
  - PHYX049L 1  
  - PHYX064L 1
- CHMX046C 4  
  Take both courses:  
  - CHMX046 2  
  - CHMX046L 2
- BSCX010C 1  
  General Biology I and Laboratory  
  Take the following:  
  - BSCX010 3  
  Select from the following:  
  - BSCX010L 1  
  - BSCX044L 1
- CHMX210C 4  
  Organic Chemistry I with lab  
  Take both:  
  - CHMX210 2  
  - CHMX210L 2

(1) UF requires CHMX217 or both CHMX210 and CHMX211.

* Limited Access.