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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Cr. Hrs.</th>
<th>Course Title</th>
<th>Gen.Ed**</th>
</tr>
</thead>
<tbody>
<tr>
<td>MACX311</td>
<td>4</td>
<td>Calculus I with Analytical Geometry</td>
<td></td>
</tr>
<tr>
<td>MACX312</td>
<td>4</td>
<td>Calculus II with Analytical Geometry</td>
<td></td>
</tr>
<tr>
<td>MACX313</td>
<td>4</td>
<td>Calculus III with Analytical Geometry</td>
<td></td>
</tr>
<tr>
<td>MACX281</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MACX282</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MACX283</td>
<td>4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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:

- CHMX045/045L  
  4

Take both courses:

- CHMX095/095L  
  4

- CHSX440C  
  4

Take both courses:

- CHSX440/440L  
  4

- PHYX048C  
  5

- PHYX048  
  4

Select one:

- PHYX048L  
  1

- PHYX064L  
  1

- PHYX049C  
  5  Physics Laboratory II

Take all of the following:

- PHYX049  
  4

Select from the following:

- PHYX049L  
  1

- PHYX064L  
  1

Take both courses:

- CHMX046/046L  
  4

Take both courses:

- CHMX096/096L  
  4

- CHMX046C  
  4

- 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:

- CHMX210/210L  
  3

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