### Math & Statistics
- **MATH 3 or AMS 3 or math placement of 400 or higher**
  - **MATH 19A**
    - Calculus [F/W/Sp]
- **MATH 19B**
  - Calculus [F/W/Sp]
- **MATH 11B or MATH 11B**
  - AMS 131 Intro to Probability Theory [F]
- **AMS 131 or CMPE 107**
  - AMS 132 Statistical Inference [W]

### Chemistry
- **MATH 3**
  - CHEM 1A General Chemistry [F/W/Sp]
- **CHEM 1B/M**
  - General Chemistry [F/W/Sp]
- **CHEM 1A**
  - CHEM 1C/N General Chemistry [F/W/Sp]
- **CHEM 1B, 1C/N**
  - CHEM 108A/L Organic Chemistry [F/W]

### Biochemistry OR
- **CHEM 108**
  - CHEM 108B/M Organic Chemistry [W/Sp]
- **CHEM 108B or 112C, BIOL 100**
  - BIOL 100A Biochemistry & Molecular Biology [F]
- **CHEM 108B or 112C, BIOL 100A**
  - BIOL 101/L Molecular Biology & Biochemistry Lab [W/Sp]
- **BIOCHEM Lab Elective**

### Biology
- **BME 5**
  - Introduction to Biotechnology [F/W/Sp]
- **CHEM 1A, 1B**
  - BIOL 20A Cell & Molecular Biology [F/W/Sp]
- **BIOE 20B**
  - Development & Physiology [F/W/Sp]
- **BIOE 20A, BIOE 20B**
  - BIOL 105 Genetics [F/W/Sp]
- **BIOE 20A, BIOE 20B**
  - BIOL 105: General Genetics [F/W/Sp]

### Electives
- **Upper-Division PBSci/BSOE Elective**
- **Bioengineering Design Elective**

### Notes:
- Denotes pre-requisites and co-requisites.
- Choice of electives will need faculty approval (see back).
- *Pre-req for BME 188A is BME 180 and perm. of instructor; pre-req for BME 188B is BME 188A and perm. of instructor*

Information about the prerequisites and scheduling of courses can change without notice—please check your plan each quarter and adjust for any changes.

http://ua.soe.ucsc.edu • advising@soe.ucsc.edu • (831) 459-5840 • 10/22/2015
## Bioengineering B.S. Degree: Biomolecular
### 2015-2016 Curriculum Chart

<table>
<thead>
<tr>
<th>Fall ______</th>
<th>Winter ______</th>
<th>Spring ______</th>
<th>Summer ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall ______</th>
<th>Winter ______</th>
<th>Spring ______</th>
<th>Summer ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall ______</th>
<th>Winter ______</th>
<th>Spring ______</th>
<th>Summer ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall ______</th>
<th>Winter ______</th>
<th>Spring ______</th>
<th>Summer ______</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Bioengineering Electives Approval Form

- Elective 1: ___________________________________
- Elective 2: ___________________________________
- Elective 3: ___________________________________
- Elective 4: ___________________________________

Explanation for choice of electives:

_____________________________________________

_____________________________________________

_____________________________________________

_____________________________________________

Student Name:
Staff Advisor:
Faculty Advisor: