### BIOL Prerequisites:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Semester</th>
<th>Grade</th>
<th>Place Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 103</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 104</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GEN CHEM Prerequisites:

General Chemistry
- (2 terms -161/165; or 163/167; or its equivalent)
- General Chemistry Labs
  - (2 terms - 134L/136L)

### ORG CHEM Prerequisites (BS & BS/INT only)

- Organic Chemistry (1 term - 174a; or 175b; or 220a)
- Organic Chemistry Lab (1 term - 222L; or 223L; or 226L)
  - (BS/BS INT only: Completion of the Freshman Organic Chemistry sequence 174/175 and 222L/223L satisfies all of the Chemistry prerequisites for the MCDB major)

### PHYSICS Prerequisites:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Semester</th>
<th>Grade</th>
<th>Place Out</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MATH Prerequisites:

Math 115 or higher (1 term - not including Math 190)

### CORE COURSES: (BS & BS INT - Choose any 3)

- MCDB 200b Molecular Biology
- MCDB 202a Genetics
- MCDB 205b Cell Biology
- MCDB 210a Developmental Biology

**Either:**
- MCDB 300b Biochemistry
- MB&B 300a Principles of Biochemistry I

### GENERAL ELECTIVES: (2 Total)

**Required Track Course:** MCDB 370b Biotechnology

**AND Choose 1 additional elective below**

- BENG 351a Biomedical Engineering I
- BENG 352b Biomedical Engineering II
- BENG 410a Basis of Bioimaging & Biosensing
- BENG 435b Biomaterial - Tissue Interactions
- BENG 457b Biomechanics
- BENG 464b Tissue Engineering
- CENG 210a Chem Eng & Process Modeling
- CENG 411a Separation & Purification Processes

**SPECIAL ELECTIVES:**

- BS & BS INT: Choose 1 from MCDB 350 or above

**LABS:**

- BS & BS INT: Choose 2 labs (must be from MCDB)

### SENIOR REQUIREMENT:

**BS:** (2 terms of Research)

- MCDB 475 a or b Independent Research MCDB
- MCDB 485/486 Senior Requirement MCDB BS Major

*MCDB 485/486 is preferred - but 2 terms of MCDB 475 (+ summer) will satisfy this req*

**BS INT:** (2 terms of Intensive Research)

- MCDB 495/496 Senior Requirement MCDB BS INT Major