Microbiology Major Requirements: 42 hours total

- Students must receive a C- or better to meet major requirements
- Cascading Prerequisites are strictly enforced. (BSC 2011/L are not prerequisites for any Micro major courses.)
- Students must maintain a 2.0 GPA in all Majors’ coursework, which is calculated using only USF Biology courses.
- Students must have less than 3 D and/or F grades in micro major and supporting science requirement lectures.
- Students must complete a minimum of 20 hours in Biology at USF.

### Microbiology Core Curriculum: 22 hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010, 2010L</td>
<td>4hrs</td>
<td>CHM 2045 (Co-Req, can take concurrently)</td>
</tr>
<tr>
<td>BSC 2011, 2011L</td>
<td>4hrs</td>
<td>BSC 2010/L</td>
</tr>
<tr>
<td>MCB 3020C</td>
<td>4hrs</td>
<td>BSC 2010/L, CHM 2210</td>
</tr>
<tr>
<td>MCB 3410</td>
<td>3hrs</td>
<td>BSC 2010/L, CHM 2046</td>
</tr>
<tr>
<td>PCB 3023, 3023L</td>
<td>4hrs</td>
<td>BSC 2010/L, CHM 2046</td>
</tr>
<tr>
<td>PCB 3063</td>
<td>3hrs</td>
<td>BSC 2010/L, CHM 2046</td>
</tr>
</tbody>
</table>

### Advanced Microbiology Curriculum: 20 hours

Most advanced microbiology courses are not offered every semester. There are no set offerings for summer semesters.

- MCB 4115C Determinative Bacteriology 5hrs  MCB 3020C (Fall only)
- MCB 4320 Molecular Microbiology 3hrs  MCB 3020C, PCB 3023, PCB 3063 (Spring)

- Choose 12 hours of the following Microbiology Major courses
  - BCH 3023 Biochemistry 3hrs  CHM 2211
  - BCH 3023L Biochemistry Laboratory 2hrs  BCH 3023 (Co-Req, can take concurrently)
  - BOT 4434C Mycology 3hrs  MCB 3020C
  - BSC 4905 Independent Study 1hr  Contract with faculty member
  - BSC 4933 Special Topic approved for Micro 3hrs  CI
  - BSC 5931 Special Topic approved for Micro 3hrs  CI
  - MCB 4313 Industrial Micro + Biotech 3hrs  MCB 3020C
  - MCB 4404 Microbial Physiology + Genetics 4hrs  MCB 3020C
  - MCB 4404L Microbial Physiology + Genetics Lab 1hr  MCB 4404 (Co-Req, can take concurrently)
  - MCB 4503 Virology 3hrs  MCB 3020C
  - MCB 4905 Undergraduate Research 1-4 hrs  3.0 GPA, contract with faculty member
  - MCB 4934 Seminar in Microbiology 1hr  MCB 3020C, CI
  - MCB 5206 Public Health & Path Micro 3hrs  MCB 3020C, CI
  - MCB 5655 Applied & Env Micro 3hrs  MCB 3020C, CI
  - MCB 5815 Medical Mycology 3hrs  MCB 3020C, CI
  - PCB 3671 Molecular Evolution 3hrs  PCB 3063 or CI
  - PCB 4234 Immunology 3hrs  PCB 3023, PCB 3063 or MCB 3020C

### Supporting Sciences: 34 hours total

- Students must receive a C- or better to meet requirements for degree
- CHM 2045/L & CHM 2046/L General Chemistry I & II (8 hrs)  C (2.0) grade min
- CHM 2210/L & CHM 2211/L Organic Chemistry I & II (10 hrs)  C (2.0) grade min
- One of the General Physics sequences (8 hrs):
  - PHY 2053/L & 2054/L (non-calculus based, recommended for life science/pre-health majors)
  - PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence)
- Calc I: MAC 2241 Life Sciences, MAC 2281 Engineering, or MAC 2311 (4 hrs)  C (2.0) grade min
- Calc II or Statistics: MAC 2242, MAC 2282, MAC 2312, or STA 2023 (4 hrs)  C (2.0) grade min

9/2011