Biology Major Requirements: 40 hours total

- Must receive a C- or better to meet major requirements.
- Cascading Prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Must maintain a 2.0 GPA in all Majors’ coursework; this is the Applied Attempts GPA in the Major block in Degreeworks.
- Must have fewer than 3 D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50% (20 credit hours) of Environmental Microbiology major requirements at USF Tampa

Biology Core Curriculum: 16 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010 &amp; 2010L</td>
<td>Biology I Cellular Processes</td>
<td>4 hrs. BSC 2010/L, CHM 2045</td>
</tr>
<tr>
<td>BSC 2011 &amp; 2011L</td>
<td>Biology II Diversity</td>
<td>4 hrs. BSC 2011/L, CHM 2046</td>
</tr>
<tr>
<td>PCB 3043 &amp; 3043L</td>
<td>Ecology and Lab</td>
<td>4 hrs. BSC 2010/L, CHM 2046</td>
</tr>
<tr>
<td>PCB 3063 &amp; 3063L</td>
<td>Genetics and Lab</td>
<td>4 hrs. BSC 2010/L, CHM 2046</td>
</tr>
</tbody>
</table>

Environmental Microbiology Core Curriculum: 24 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
<td>4 hrs. BSC 2010/L, CHM 2210</td>
</tr>
<tr>
<td>MCB 4404/L</td>
<td>Microbial Physiology &amp; Genetics</td>
<td>5 hrs. MCB 3020C, BSC 2011/L, CHM 2210</td>
</tr>
</tbody>
</table>

Advanced Micro Core option, Choose 2 from:

- BSC 4933 Applied/Environmental Micro 3 hrs. BSC 2010/L, CHM 2210
- MCB 4 Micro of Waterborne Diseases 3 hrs.
- MCB 4202 Ecology of Infectious Diseases 3 hrs. BSC 2011/L, CHM 2046, & MCB 3020C or PCB 3043
- BSC 4933 Epigenetics 3 hrs.
- BSC 4933 Genomics 4 hrs.
- ZOO 4233 Parasitology 4 hrs. BSC 2011/L, CHM 2210

Choose 7-9 additional hours of Biology Major courses from Tampa Campus IB Department or CMMB Department courses (course code prefix of BOT, BSC, MCB, PCB, or ZOO), with the exception of BSC 4905 and courses labeled as “not for major credit”

- Must complete remaining hours necessary to meet the total 40 hours of biology required. If 15 hours completed in the rest of the environmental micro core requirement, then must complete 9 hours in the advanced curriculum.
- Most advanced biology courses are not offered every semester; there are no set offerings for summer semesters.
- Maximum of four (4) semester hours BSC 4910 Undergraduate Research can apply.
- BCH 4033/3023L Intro to Biochemistry and lab are the only approved options not offered by IB or CMMB. (chemistry)

Supporting Sciences: 32-34 hours total

- Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is req.)
- CHM 2045 & CHM 2045L General Chemistry I and Lab 4 hrs.
- CHM 2046 & CHM 2046L General Chemistry II and Lab 4 hrs.
- CHM 2210 & CHM 2210L Organic Chemistry I and Lab 5 hrs.
- CHM 2211 & CHM 2211L Organic Chemistry II and Lab 5 hrs.
- One of the General Physics sequences (8 hrs):
  o PHY 2053/L & 2054/L (non-calculus based, recommended for life science/pre-health majors)
  o PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence)
- Calculus I: MAC 2241 Life Sciences, MAC 2311 or MAC 2281 Engineering 3-4 hrs.

11/05/2013
Additional USF Degree Requirements

USF BioAdvise - SCA 203  bioadvise@cas.usf.edu  Ph: 813/974-3250  Fax: 813/974-2876  http://biology.usf.edu/bioadvise

Statistics or Calculus II: STA 2023 or MAC 2242, MAC 2312, MAC 2282  3-4 hrs.

General Education:  24 hours- Choose either FKL or Liberal Arts depending on when you entered USF

- English Composition – 6 hours  ENC 1101  ENC 1102
  - FKL categories – use if you entered USF Fall 2009 or later
    - 2 courses (6 hours) in CASB Social/Behavioral Sciences
    - 1 course (3 hours) in CAFA Fine Arts
    - 1 course (3 hours) in CAGC Human/ Cultural Diversity in a Global Context
    - 2 courses (6 hours) in CAHU Humanities
    - 2 courses (6 hours) from above must also meet HHCP Human Historical Context and Process dimension.
      ENC 1101*

Exit/Upper-level Requirements: Choose either FKL or Liberal Arts depending on when you entered USF

- FKL categories – use if you entered USF Fall 2009 or later
  - 1 course (3 hours) in CPST Capstone
  - 1 course (3 hours) in WRIN Writing Intensive

*If Human Historical Context and Process dimension was not completed in Gen Ed, can be completed here

Other University and College Requirements:

- 120 hours
- 48 hour rule
- Summer rule
- GPA Requirement - Students must earn an Overall 2.0 GPA and USF 2.0 GPA
- USF Residency - Students must complete 30 hours of the last 60 hours in USF coursework.
- FLENT (Foreign Language Entrance Requirement)
- Gordon Rule Communication and Computation

The final responsibility for meeting all graduation requirements stated in the catalog rests with the student. See the USF catalog for a complete list of graduation requirements. http://www.ugs.usf.edu/catalogs.htm