Microbiology Major Requirements: 42 hours total

- Students must receive a C- or better to meet major requirements.
- Cascading Prerequisites are strictly enforced.
- 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 CMB concentration and supporting science requirement lectures.
- Students must complete a minimum of 20 hours in Biology at USF Tampa.

Microbiology Core Curriculum: 22 hours

- BSC 2010, 2010L Cellular Processes & Lab 4hrs
- BSC 2011, 2011L Biodiversity & Lab 4hrs
- MCB 3020/L General Microbiology & Lab 4hrs
- MCB 3410 Cell Metabolism 3hrs
- MCB 3020/L, CHM 2210
- PCB 3023, 3023L Cell Biology w/Lab 4hrs
- PCB 3063 Genetics 3hrs

Advanced Microbiology Curriculum: 20 hours

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

- MCB 4115/L Determinative Bacteriology & Lab (Fall only) 5hrs
- MCB 4320 Molecular Microbiology (FA & SP) 3hrs
- Choose 12 hours of the following Microbiology Major courses
  - BCH 3053 Biochemistry 3hrs
  - BSC 4905 Independent Study 1hr
  - BSC 4933* Special Topic approved for Micro 3hrs
  - MCB 4933 Special Topics approved for Micro 3hrs
  - BSC 5931 Special Topic approved for Micro 3hrs
  - MCB 4404 Microbial Physiology + Genetics (SP only) 3hrs
  - MCB 4404L Microbial Physiology + Genetics Lab 1hr
  - MCB 4503 Virology (Fall Only) 3hrs
  - MCB 4905 Undergraduate Research 1-4 hrs
  - MCB 4934 Seminar in Microbiology 1hr
  - MCB 5206 Public Health & Path Micro (Summer only) 3hrs
  - MCB 5655 Applied & Env Micro (also BSC 4933) 3hrs
  - PCB 4671 Molecular Evolution (every other Spring) 3hrs
  - PCB 4234 Immunology (Fall only) 3hrs
  - ZOO 4753 Human Histology & Histopathology 3hrs

*Not all BSC 4933 courses count towards this major’s elective hours. Check with an Advisor.

Check BioAdvise permits page for additional Microbiology electives.

Supporting Sciences: 32-34 hours total

- Students must receive a C- or better to meet requirements for degree
  - 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.: C- or better
    - 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 2311, or MAC 2281 Engineering 3-4 hrs.
  - Calc II or Statistics: MAC 2242, MAC 2312, MAC 2282, or STA 2023 3-4hrs.
Additional USF Degree Requirements
USF BioAdvise - SCA 203 bioadvise@usf.edu Ph: 813/974-3250 Fax: 813/974-2876 http://biology.usf.edu/bioadvise

Foundations of Knowledge and Learning Lower-level Requirements:

- English Composition (2 courses) ENC 1101 ENC 1102
- Social/Behavioral Sciences (2 courses) 
- Fine Arts (1 course) 
- Human/Cultural Diversity in a Global Context (1 course) 
- Humanities (2 courses) 
- Human Historical Context and Process dimension two courses from above must also meet HHCP* ENC 1101 

Foundations of Knowledge and Learning Upper-level Requirements:

- Capstone (1 course) 
- Writing Intensive (1 course) 

*If HHCP was not completed in Lower-level FKL it can be completed as Upper-level FKL

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

“BioAdvise at USF” on Facebook for new opportunities within the Biology field!

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