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 micro major and supporting science requirement lectures
- Students must complete a minimum of 20 hours in Biology at USF

Pre-Biology Foundation: 8 hours

- BSC 2010, 2010L Biology I Cellular Processes 4hrs CHM 2045 (Co-Req, can take concurrently)
- BSC 2011, 2011L Biology II Diversity 4hrs BSC 2010/L

Microbiology Core Curriculum: 11 hours

- MCB 3020C General Microbiology 4hrs BSC 2010/L, CHM 2210
- PCB 3023, 3023L Cell Biology w/Lab 4hrs BSC 2010/L, CHM 2046
- PCB 3063 Genetics 3hrs BSC 2010/L, CHM 2046

Advanced Microbiology Curriculum: 23 hours

- MCB 4115C Determinative Bacteriology 5hrs MCB 3020C (Fall only)
- MCB 4404, 4404L Microbial Phys & Genetics w/Lab 5hrs MCB 3020C, CHM 2211(Spring Only)
- Choose 13 hours of the following Microbiology Major courses
  - BCH 3023L Biochemistry Laboratory 2hrs BCH 3023
  - BOT 4434C Mycology 3 hrs MCB 3020C
  - BSC 4933 Special Topic approved for Micro 3 hrs CI
  - BSC 5420 Genetic Engineering 3 hrs PCB 3023, PCB 3063, CI
  - BSC 5444 Genomics 4 hrs PCB 3063, CI
  - BSC 5931 Special Topic approved for Micro 3 hrs CI
  - MCB 4313 Industrial Microbiology 3 hrs MCB 3020C
  - MCB 4320 Molecular Microbiology 3 hrs MCB 3020C, PCB 3063, PCB 3023
  - MCB 4503 Virology 3hrs MCB 3020C
  - MCB 4905 Undergraduate Research 1-4 hrs 3.0GPA, contract with faculty member
  - MCB 4934 Seminar in Microbiology 1hr MCB 3020C, CI
  - MCB 5206 Public Health & Path Micro 3hrs MCB 3020C, CI
  - MCB 5408 Cellular Microbiology 3 hrs MCB 3020C, PCB 3023, PCB 3063, CI
  - MCB 5655 Applied & Env Micro 3hrs MCB 3020C, CI
  - MCB 5815 Medical Mycology 3hrs MCB 3020C, CI
  - PCB 3043 Ecology 3hours BSC 2011/L, CHM 2046
  - PCB 4234 Immunology 3hrs PCB 3023, PCB 3063 or MCB 3020C
  - ZOO 4233 Parasitology 4hrs PCB courses or MCB 3020C, CI

Supporting Sciences: 37 hours total

- Students must receive a C- or better to meet requirements for degree
- General Chemistry I & II: CHM 2045/L & CHM 2046/L (8 hours) C (2.0) grade min
- Organic Chemistry I & II: CHM 2210/L & CHM 2211/L (10 hours) C (2.0) grade min
- One of the following Biochemistry courses (3 hours):
  - BCH 3023 Intro to Biochemistry C (2.0) grade min
  - MCB 3410 Cellular Metabolism
- One of the General Physics sequences (8 hours):
  - 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 C (2.0) grade min
- Calc II or Stats: MAC 2242, MAC 2282, MAC 2312, or STA 2023 C (2.0) grade min

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