Biology Major Requirements: 40 hours total

• Students must receive a C- or better to meet major requirements
• Cascading Prerequisites are strictly enforced – CR denotes courses that can be taken as a co-requisite (taken concurrently)
  □ Students must meet Biology Entrance Requirement: 2.75 GPA in BSC 2010, BSC 2011, CHM 2045, CHM2046 and any one college-level math/physics/statistics class
  □ Students must earn a 2.0 GPA in all major coursework taken at USF
  □ Students must complete a minimum of 20 hours in Biology at USF

Pre-Biology Foundation: 8 hours

□ BSC 2010 & 2010L Biology I Cellular Processes 4 hrs CHM 2045 (CR)
□ BSC 2011 & 2011L Biology II Diversity 4 hrs BSC 2010/L

Biology Core Curriculum: 14 hours

□ PCB 3023 Cell Biology 3 hrs BSC 2011/L, CHM 2046
□ PCB 3043 Ecology 3 hrs BSC 2011/L, CHM 2046
□ PCB 3063 Genetics 3 hrs BSC 2011/L, CHM 2046
□ PCB 3712 General Physiology 3 hrs BSC 2011/L, CHM 2046
□ Any two of the following labs:
  o PCB 3023L Cell Biology Lab 1 hr PCB 3023 (CR)
  o PCB 3043L Ecology Lab 1 hr PCB 3043 (CR)
  o PCB 3063L Genetics Lab 1 hr PCB 3063 (CR)
  o PCB 3713L General Physiology Lab 1 hr PCB 3712 (CR)

Advanced Biology Curriculum: 18 hours

• Most advanced biology courses are not offered every semester. There are no set offerings for summer semesters.
• Any Tampa Campus Bio Dept Major course (course code prefix of BOT, BSC, ENY, MCB, PCB, or ZOO) with the exception of courses labeled as “not for major credit”
□ Choose 8 hours of 4000+level Biology Major courses:
  • May complete up to four (4) semester hours of undergraduate research (BSC 4910, MCB 4905, BSC 4970)
□ Choose 10 hours of 3000+level Biology Major courses:
  • May complete BCH 3023 Introduction to Biochemistry lecture only (offered by Dept of Chemistry)

Supporting Sciences: 34 hours total

• Students must receive a C- or better to meet supporting science requirements
□ CHM 2045/L & CHM 2046/L General Chemistry I & II (8 hours)
□ CHM 2210/L & CHM 2211/L Organic Chemistry I & II (10 hours)
□ One of the General Physics sequences (8 hours):
  o PHY 2053/L & 2054/L (recommended – non-calculus based)
  o PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence)
□ One of the following Calculus sequences (8 hours):
  o MAC 2241 & 2242 Life Sciences Calculus I and II
  o MAC 2311 & 2312 Calculus I & II (with analytic geometry)
  o MAC 2281 & 2282 Engineering Calculus I & II
  o STA 2023 Introduction to Statistics can be substituted for any Calculus II
Liberal Arts Requirements: 33 hours total

- **General Education**: Students are required to meet 36 hours of general education courses; only 24 hours are listed below. The other 12 hours of general education required math and science coursework will be completed in the biology major degree requirements. General Education courses must be chosen from the list published in the catalog and completed with an overall 2.0 GPA. Courses may be approved in more than one area, but students may use each course in only one (1) area.
  - English Composition 1 and 2 (6 hours) ENC 1101 ENC 1102
  - Two courses in Social Sciences (6 hours) 
  - One course in Fine Arts (3 hours) 
  - One course in ALAMEA Perspectives (3 hours) 
  - Two courses in Historical Perspectives (6 hours) 

- **Exit Requirements**: Exit requirement courses must be taken at USF and chosen from the list in the Catalog or Schedule of Classes. Courses may be approved in more than one area, but students may use each course in only one (1) area. Must be Junior-level standing. Grades of “C-” or better are required; however, if one of the Major Works and Major Issues courses is taken outside the student’s major disciplinary cluster, it may be taken for S/U credit with the consent of the instructor.
  - One course in Literature and Writing (3 hours) 
  - Two classes in Major Works and Major Issues (6 hours) 

**Other University and College Requirements:**

- **120 hours**: Students must have a minimum of 120 semester hours to graduate. Biology majors regularly need 13 hours of free electives to meet the 120 hour requirement; however, this can vary. A maximum of 2 hours of Physical Education and 9 hours of ROTC coursework can count towards the 120 hours required for the degree. Up to 20 hours may be S/U grading options.

- **48 hour rule**: Out of the required 120 credits necessary to graduate, a minimum of 48 hours must be at a 3000+ level. Regularly, Biology majors meet 9 hours in the exit requirements and 32 hours in the biology major.

- **Summer rule**: Students entering USF with fewer than 60 semester hours are required to earn at least 9 semester hours during one or more summer semesters at one of the universities in the Florida State University System.

- **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 courses.

- **FLENT**: (Foreign Language Entrance Requirement) Met with two years of the same foreign language in high school, or by completing the second semester of a college-level foreign language. Students who are fluent in a foreign language may see the World Language Education Department (CPR 419, 974.2548).

- **Gordon Rule**: Gordon Rule Computation will naturally be met in the supporting sciences. Gordon Rule Communication requires students to complete a minimum of four courses (12 semester hours) which meet the Gordon rule writing standards. Only courses designated as Gordon Rule 6A can meet this requirement. Most students will complete 9 of the 12 hours in ENC1101, ENC1102, and the LW Exit requirement. Must receive a C or better in each course.

- **CLAST**: (College Level Academic Skills Test) All students must satisfy the CLAST requirements by the time they have completed 45 semester hours.

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](http://www.ugs.usf.edu/catalogs.htm)