Marine Bio Concentration BS (BIOMRN) – 2002 - 09/10 Catalog
USF BioAdvise - SCA 203 Ph: 813/974.3250 Fax: 813/974.2876 - bioadvise@cas.usf.edu, http://biology.usf.edu/bioadvise/

Biology –Marine Concentration Requirements: 42 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 maintain a 3.0 GPA in all Majors’ coursework taken at USF; Students must have less than 3 D and/or F grades in biology marine 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 4 hrs CHM 2045 (CR)
- BSC 2011 & 2011L Biology II Diversity 4 hrs BSC 2010/L

Biology-Marine Core Curriculum: 17 hours

- BSC 3312 Marine Biology 3 hrs BSC 2011/L, CHM 2046 (Fall only)
- 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:
  - PCB 3023L Cell Biology Lab 1 hr PCB 3023 (CR)
  - PCB 3043L Ecology Lab 1 hr PCB 3043 (CR)
  - PCB 3063L Genetics Lab 1 hr PCB 3063 (CR)
  - PCB 3712L General Physiology Lab 1 hr PCB 3712 (CR)

Advanced Biology-Marine Curriculum: 17 hours

- Most advanced biology-marine courses are not offered every semester. There are no set offerings for summer semesters.
- BSC 4937 Seminar in Marine Biology 2 hrs BSC 3312, PCB 3xxx (Spring only)
- Choose one 4-hour course from the following:
  - BOT 3373C Vascular Plants
  - MCB 3020C General Microbiology
  - ZOO 3205C Advanced Invertebrate Biology
  - ZOO 3713C Comparative Vertebrate Anatomy

- Choose 8 hours of the following 4000+level Biology - Marine Major courses
  - Maximum of 6 hours may be taken from other departments with prior approval **
  - BOT 4503/L Plant Physiology (3/1)
  - BOT 5185 Marine Botany (4)
  - BSC 4313C Advanced Marine Biology (4)
  - BSC 4910/MCB 4905 Undergrad Research (1-4)
  - GIS 5049** GIS for Non-majors (3)
  - GLY 4734** Beaches & Coastal Environments (3)
  - OCB 6050** Biological Oceanography (3)
  - OCC 6050** Chemical Oceanography (3)
  - OCG 6050** Geographical Oceanography (3)

- Choose 3 additional hours from any of the advanced biology-marine curriculum courses listed from any of the advanced biology-marine curriculum courses listed to meet total 42 hours required

Supporting Sciences: 34 hours total

- Students must receive a C- or better to meet supporting science requirements. Math and chemistry courses at USF require a “C” (2.0) grade or better in order to meet the next course in the sequence’s prerequisites.
- 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):
  - PHY 2053/L & 2054/L (recommended – non-calculus based)
  - PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence)
- One of the following Calculus sequences (8 hours):
  - MAC 2241 & 2242 Life Sciences Calculus I and II
  - MAC 2311 & 2312 Calculus I & II (with analytic geometry)
  - MAC 2281 & 2282 Engineering Calculus I & II
  - STA 2023 Introduction to Statistics can be substituted for any Calculus II

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