



Biology BS: Marine Biology major – 2015/2016 Catalog

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

IB Department of Integrative Biology



Marine 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 20 credit hours of Marine Biology major requirements at USF Tampa

Biology Core Curriculum: 16 hours

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|--------------------|------------------------------|--------|
| ☐ BSC 2010 & 2010L | Biology I Cellular Processes | 4 hrs. |
| ☐ BSC 2011 & 2011L | Biology II Biodiversity | 4 hrs. |
| ☐ PCB 3043 & 3043L | Ecology and Lab | 4 hrs. |
| ☐ PCB 3063 & 3063L | Genetics and Lab | 4 hrs. |

Prerequisite

- BSC 2011/L, CHM 2046
BSC 2010/L, CHM 2046

Marine Curriculum: 24 hours – minimum of 8 hours must be 4000+level

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| ☐ BSC 3312 | Marine Biology | 3 hrs. | BSC 2011/L, CHM 2046 |
| ☐ BSC 4937 | Seminar in Marine Biology (Spring) | 2 hrs. | BSC 3312, PCB 3xxx, CHM 2210 |
- ☐ Choose **one** "structure" course from the following:

○ BOT 3373C Vascular Plants	4 hrs.	○ ZOO 3205C Advanced Invertebrate Bio (Fall)	4 hrs.
○ MCB 3020/L General Microbiology	4 hrs.	○ ZOO 3713C Comparative Vertebrate Anatomy (Spring)	5 hrs.
○ BSC 4933 Vertebrate Natural History + Lab	4 hrs.		
 - ☐ Choose 14-15* hrs. of Marine Bio electives from the following courses:
 - **Min 8 hours must be at 4000+level**
 - Max of 6 hours may be taken from courses offered outside of the biology departments with prior approval
 - BSC 4313C Advanced Marine Biology (Spring) (4)
 - BSC 4910 Undergrad Research (1-4)
 - BSC 4933 Selected Topics (approved for Marine) (3) **
 - GIS 5049 GIS for Non-majors (3)
 - GLY 4734 Beaches & Coastal Environments (3)
 - OCE 4930 Advanced Undergraduate Oceanography I (3)
 - OCE 4930 Advanced Undergraduate Oceanography II (3)
 - PCB 3712/PCB 3713L General Physiology (3/1)
 - PCB 4674 Organic Evolution (3)
 - MCB 4404/L Microbial Physiology & Genetics (4/1)
 - ZOO 4513 Animal Behavior (3)
 - ZOO 3407/L Bio of Sharks and Rays (4)
 - ZOO 4454/L Fish Biology (4)

- May also select one or more of the "structure" courses which is NOT being used to meet the "structure" requirement* (BOT 3373C, MCB 3020C, ZOO 2303/BSC 4933, ZOO 3205C, and/or ZOO 3713C)
- *Students who complete ZOO 3713C in Spring 2012 and forward only need 14 hrs. of Marine Bio electives.
- **Check BioAdvise permits page to see list of approved Marine electives being offered each semester.

Supporting Sciences: 32- 34 hours total

Prerequisite Grade

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| ☐ Students must receive a C- or better to meet requirements for degree | |
| ☐ CHM 2045& CHM 2045L General Chemistry I and Lab | 4 hrs. C (2.0) grade min |
| ☐ CHM 2046 & CHM 2046L General Chemistry II and Lab | 4 hrs. C (2.0) grade min |
| ☐ CHM 2210 & CHM 2210L Organic Chemistry I and Lab | 5 hrs. C (2.0) grade min |
| ☐ CHM 2211& CHM 2211L Organic Chemistry II and Lab | 5 hrs. C (2.0) grade min |
| ☐ 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. C (2.0) grade min to take Calc II |
| ☐ Calc II or Statistics: MAC 2242, MAC 2312, MAC 2282, or STA 2023 | 3-4 hrs. C- or better |

Additional USF Degree Requirements

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General Education Common Core:

- ENC 1101**
- ENC 1102**
- Choose one of the following Social Sciences:** AMH 2020, ANT 2000, ECO 2013, POS 2041, PSY 2012, OR SYG 2000
- Choose one of the following Humanities:** ARH 2000, HUM 1020, LIT 2000, PHI 2010, OR THE 2000

Foundations of Knowledge and Learning Lower-Level Requirements:

- Social/Behavioral Science** _____
- Human/Cultural Diversity in a Global Context** _____
- Fine Arts** _____
- Humanities** _____
- 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** _____
- Writing Intensive** _____

Other University Requirements:

- 120 Hours** – A Bachelor’s Degree requires a minimum of 120 credit hours
- 48 Hour Rule** – All students are required to take at least 48 credits at the 3000+ level. Between your Marine Biology major courses and the exit courses you will complete 38 upper level credits. Based on the number of credits you have already taken, you have _____ upper level credits remaining, outside of the major and exit courses.
- Summer Rule** – All students who enter USF with fewer than 60 credits are required to take at least 9 credits of course work in the summer at a State University System (SUS) 4-year University.
- GPA Requirement** – Students must earn an Overall 2.0 GPA and USF 2.0 GPA
- USF Residency** – Students must complete 30 of the last 60 credits in USF Tampa coursework
- FLENT** (Foreign Language Entrance Requirement)
- Gordon Rule Communication** – ENC 1101 & ENC 1102 , Writing Intensive and one ‘double-dip’ course



“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>