



# Biology BS: Marine Biology major – 2014/2015 Catalog

USF BioAdvise - SCA 203 [bioadvise@usf.edu](mailto: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

- |                    |                              |        |
|--------------------|------------------------------|--------|
| ☐ 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

- |            |                                    |        |                              |
|------------|------------------------------------|--------|------------------------------|
| ☐ 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

- |  |  |
|--|--|
| ☐ 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                   |
| ☐ <b>One</b> 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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## Foundations of Knowledge and Learning Lower-level Requirements:

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

## Foundations of Knowledge and Learning Upper-level Requirements:

- |   |       |
|---|-------|
| <input type="checkbox"/> Capstone (1 course)          | _____ |
| <input type="checkbox"/> 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>