

# MARINE BIOLOGY (2017-2018)



## DEPARTMENT OF INTEGRATIVE BIOLOGY

BioAdvise | SCA 203 | [BioAdvise@usf.edu](mailto:BioAdvise@usf.edu) | Ph: (813)974-3250 | Fax: (813)974-2876 | [www.biology.usf.edu/bioadvise/](http://www.biology.usf.edu/bioadvise/)

- Must receive a C- or better or meet major requirements
- Must maintain a 2.0 GPA in all Major's coursework: this is the Applied Attempts GPA in the Major block of DegreeWorks
- Must have fewer than 3 D and/or F grades in Biology major and supporting science requirements lectures
- Must complete a minimum of 20 credit hours of Marine Biology major requirements at USF Tampa

## CORE CURRICULUM (25-26 CREDIT HOURS)

- |   |  |
|---|--|
| <input type="checkbox"/> BSC 2010/L: Cellular Processes with lab      | No prerequisites; must take lecture and lab together |
| <input type="checkbox"/> BSC 2011/L: Biodiversity with lab            | No prerequisites; must take lecture and lab together |
| <input type="checkbox"/> BSC 3312: Marine Biology                     | Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046   |
| <input type="checkbox"/> PCB 3043/L: Ecology and lab                  | Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046   |
| <input type="checkbox"/> PCB 3063/L: Genetics and lab                 | Prerequisites: BSC 2010/L and CHM 2046               |
| <input type="checkbox"/> BSC 4937: Seminar in Marine Biology          | Prerequisites: BSC 3312 and senior standing          |
| <input type="checkbox"/> One of the below structure courses           |  |
| <input type="checkbox"/> BOT 3373C: Vascular Plants                   | Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063 |
| <input type="checkbox"/> MCB 3020/L: Microbiology with lab            | Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2210   |
| <input type="checkbox"/> BSC 4933: Vertebrate Natural History and lab | Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063 |
| <input type="checkbox"/> BSC 4933: Mammalogy and lab                  | Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063 |
| <input type="checkbox"/> ZOO 3205C: Advanced Invertebrate Zoology     | Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063 |
| <input type="checkbox"/> ZOO 3713C: Comparative Vertebrate Anatomy    | Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046   |

## MAJOR ELECTIVES OPTIONS (14-15 CREDIT HOURS- MINIMUM OF 8 HOURS AT 4000 LEVEL)\*

- |   |   |
|---|---|
| <input type="checkbox"/> BSC 4313C: Advanced Marine Biology               | <input type="checkbox"/> GIS 4043C: GIS for non-majors                  |
| <input type="checkbox"/> BSC 4910: Undergraduate Research (max 4 credits) | <input type="checkbox"/> GLY 4734: Beaches and Coastal Environments     |
| <input type="checkbox"/> BSC 4933: Underwater Research Methods            | <input type="checkbox"/> PCB 3712/3713L: General Physiology and lab     |
| <input type="checkbox"/> BSC 4933: Coastal Plants                         | <input type="checkbox"/> PCB 4674: Organic Evolution                    |
| <input type="checkbox"/> BSC 4933: Coral Reef Ecology                     | <input type="checkbox"/> ZOO 4513C: Animal Behavior                     |
| <input type="checkbox"/> BSC 4933: Advanced Undergrad Oceanography        | <input type="checkbox"/> ZOO 3407/L: Biology of Sharks and Rays and lab |
| <input type="checkbox"/> BSC 4933: Tropical Marine Ecosystems             | <input type="checkbox"/> ZOO 4454/L: Fish Biology and lab               |

**THIS IS NOT A COMPLETE LIST: Please refer to the permit page for additional elective options and prerequisites**

Most advanced biology courses are not offered every semester; there are no set offerings for summer

\*Students who complete ZOO 3713C will only need 14 credits of MRN electives

## SUPPORTING SCIENCE (32-34 CREDIT HOURS)

- |   |   |
|---|---|
| <input type="checkbox"/> CHM 2045/L: General Chemistry I and lab  | Prerequisites: C or better in MAC 1105 or test equivalent |
| <input type="checkbox"/> CHM 2046/L: General Chemistry II and lab   | Prerequisites: C or better in CHM 2045/L                  |
| <input type="checkbox"/> CHM 2210/L: Organic Chemistry I and lab  | Prerequisites: C or better in CHM 2046/L                  |
| <input type="checkbox"/> CHM 2211/L: Organic Chemistry II and lab   | Prerequisites: C or better in CHM 2210/L                  |
| <input type="checkbox"/> One Physics Sequence:  |   |
| <input type="checkbox"/> PHY 2053/L AND PHY 2054/L (non-calculus based, recommended for life science/pre-health majors) |   |
| <input type="checkbox"/> PHY 2048/L AND PHY 2049/L (calculus based, must take MAC 2311 and 2312 math sequence)          |   |
| <input type="checkbox"/> Calculus I: MAC 2241 OR MAC 2311 OR MAC 2281   | Prerequisites: C or better in MAC 1147 or test equivalent |
| <input type="checkbox"/> Calculus II OR Statistics: MAC 2242 OR MAC 2312 OR STA 2023                                    |   |

## ADDITIONAL DEGREE REQUIREMENTS

- ENC 1101
- ENC 1102
- Core Social Science: AMH 2020, ANT 2000, ECO 2013, POS 2041, PSY 2012 OR SYG 2000
- Core Humanities: ARH 2000, HUM 1020, LIT 2000, PHI 2010 OR THE 2000
- FKL- Social and Behavioral Science
- FKL- Human and Cultural Diversity
- FKL- Fine Arts
- FKL- Humanities
- Two of the above course must also fulfill Human Historical Context and Processes (ENC 1101 AND \_\_\_\_\_ )
- FKL- Capstone (Junior/Senior upper level requirements)
- FKL- Writing Intensive (Junior/Senior upper level requirements)

## OTHER UNIVERSITY REQUIREMENTS

- 120 Hours – A Bachelor's Degree requires a minimum of 120 credit hours
- Upper-level requirement – All students are required to take at least 42 credits at the 3000+ level. Between your Marine Biology major courses and the exit courses you will complete 37-38 upper level credits. Based on the number of credits you have already taken, you have \_\_\_\_\_ upper level credits remaining, outside 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 coursework in the summer at a State University System (SUS) 4-year University. You have \_\_\_\_\_ summer credits remaining to complete.
- GPA Requirement – Students must earn an overall 2.0 GPA and USF 2.0 GPA
- USF Residency – Student 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

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

## GET INVOLVED!

- ✓ Undergraduate Research- Work one-on-one with faculty beginning your junior year!
- ✓ USF Marine Biology Club
- ✓ USF Aquarist Club
- ✓ Recreational and research dive certification
- ✓ **MOTE Marine Lab** offers internships and research experience for undergraduates
- ✓ **National Oceanic and Atmospheric Administration** (NOAA) offers paid and unpaid internships
- ✓ **Florida Aquarium** offers various unpaid internships
- ✓ **Clearwater Aquarium** has volunteer opportunities and full and part time internships
- ✓ **Florida Fish and Wildlife Research Institute** (FWRI) has internships and volunteer opportunities
- ✓ **Sarasota Dolphin Research Program** (SDRP) has internships and volunteer opportunities

Please refer to the BioAdvise involvement website for links to the above opportunities:

<http://biology.usf.edu/bioadvise/involvement/clubs.aspx>



"BioAdvise at USF" on Facebook for new opportunities within the Biology Field!