

MARINE BIOLOGY (2018-2019)



DEPARTMENT OF INTEGRATIVE BIOLOGY

BioAdvise | SCA 203 | BioAdvise@usf.edu | Ph: (813)974-3250 | Fax: (813)974-2876 | 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 applicable science coursework

MAJOR REQUIREMENTS (25-26 CREDIT HOURS)

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|---|--|
| <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"/> Marine Structure Option, choose 1 lecture and lab combo: | |
| <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 |

MRN ELECTIVE OPTIONS (14-15 CREDIT HOURS- MINIMUM OF 8 HOURS AT 4000 LEVEL)*

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|---|---|
| <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: Coral Reef Ecology | <input type="checkbox"/> PCB 4674: Organic Evolution |
| <input type="checkbox"/> BSC 4933: Advanced Undergrad Oceanography | <input type="checkbox"/> ZOO 4513C: Animal Behavior |
| <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 Major Electives page for additional 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

**Up to 6 elective credits can be approved coursework offered outside of the Biology Departments

SUPPORTING SCIENCE (32-34 CREDIT HOURS)

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|---|---|
| <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"/> PHY 2060+2048L AND PHY 2061+ 2049L (Enriched Physics, 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
- Enhanced General Education – Creative Thinking
- Enhanced General Education – Human and Cultural Diversity
- Enhanced General Education – Information and Data Literacy
- Enhanced General Education – Ethical Reasoning and Civic Engagement
- Enhanced General Education – High Impact Practice

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. In your Marine Biology major courses, you will complete 32 upper-level credits. Based on the number of credits you have already taken, you have _____ upper level credits remaining, outside the major.
- 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
- Biology Residency – Student must complete 20 of the last 30 biology credits at USF Tampa
- FLENT (Foreign Language Entrance Requirement)
- State Communication – ENC 1101, ENC 1102, and two 'double-dip' courses

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

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!