



Biology BS: Integrative Animal Biology major – 2013/2014 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



Integrative Animal 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 of Degree works.
- Must have **fewer than 3** D and/or F grades in the Biology major and supporting science requirement lectures
- Must complete a minimum of 50% (20 credit hours) of Integrative Animal Biology major requirements at USF Tampa

Biology Core Curriculum: 16 hours

		<u>Prerequisites</u>
<input type="checkbox"/> BSC 2010 & 2010L	Biology I Cellular Processes	4 hrs
<input type="checkbox"/> BSC 2011 & 2011L	Biology II Diversity	4 hrs BSC 2010/L, CHM 2045
<input type="checkbox"/> PCB 3043 & 3043L	Ecology and Lab	4 hrs BSC 2011/L, CHM 2046
<input type="checkbox"/> PCB 3063 & 3063L	Genetics and Lab	4 hrs BSC 2010/L, CHM 2046

Integrative Animal Biology Curriculum: 24 hours – min 8 hours at 4000+level

- Choose 1 Structure & Function Pairing from:
 - Invertebrate Biology
 - ZOO 3205C Adv. Invertebrate Zoology (Fall) 4 hrs BSC 2011/L, CHM 2046, & PCB 3xxx
AND
 - PCB 3712/L General Physiology 4 hrs BSC 2011/L, CHM 2046
 - Vertebrate Biology
 - BSC 4933/L Vertebrate Natural History **OR** 4 hrs BSC 2011/L, CHM 2046
 - ZOO 3713C Comparative Vertebrate Anatomy (Spring) * 5 hrs BSC 2011/L, CHM 2046
AND
 - PCB 3712/L General Physiology 4 hrs BSC 2011/L, CHM 2046
 - Human Biology
 - BSC 2093C Human Anatomy & Physiology I (Fall) 4 hrs BSC 2011/L, CHM 2045
 - BSC 2094C Human Anatomy & Physiology II (Spring) 4 hrs BSC 2093C, BSC 2011/L, CHM 2045
- Choose 15-16 additional hours of Integrative Animal Biology Major courses (**8 of the 16 hrs. must be 4000+ level Biology Major Courses**), from Tampa Campus IB Department or CMMB Department course offerings (prefix of BOT, BSC, MCB, PCB, or ZOO), with the exception of BSC 4905 and courses labeled as “not for major credit.”
- Most advanced biology courses are not offered every semester; there are no set offerings for summer semesters.
- Maximum of four (4) semester hours BSC 4910 Undergraduate Research can apply.
- OCE 4930 Advanced Oceanography I and II **OR** BCH 4033/3023L Intro to Biochemistry and lab are the only approved non-Biology elective course options not offered by IB or CMMB departments.
- **BCH 4033 will NOT count towards the 8 hrs. of 4000 level major electives.**
- *Students who complete ZOO 3713C in Spring 2012 and forward only need 15 hrs. of IAB Bio electives.

Supporting Sciences: 32- 34 hours total

- Students must receive a C- or better to meet requirements for degree (for progression in Math and CHM C is req.)
- CHM 2045 & CHM 2045L General Chemistry I and Lab 4 hrs.
- CHM 2046 & CHM 2046L General Chemistry II and Lab 4 hrs.
- CHM 2210 & CHM 2210L Organic Chemistry I and Lab 5 hrs.
- CHM 2211 & CHM 2211L Organic Chemistry II and Lab 5 hrs.
- One** of the General Physics sequences (8 hrs):
 - 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)
- Calculus I: MAC 2241 Life Sciences, MAC 2311 or MAC 2281 Engineering 3-4 hrs.
- Statistics or Calculus II: STA 2023 or MAC 2242, MAC 2312, MAC 2282 3-4 hrs.

Additional USF Degree Requirements

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General Education: 24 hours- Choose either FKL or Liberal Arts depending on when you entered USF

- | <input type="checkbox"/> English Composition – 6 hours | ENC 1101 | ENC 1102 |
|---|-----------|----------|
| ❖ FKL categories – use if you entered USF Fall 2009 or later | | |
| <input type="checkbox"/> 2 courses (6 hours) in CASB Social/Behavioral Sciences | _____ | _____ |
| <input type="checkbox"/> 1 course (3 hours) in CAFA Fine Arts | _____ | |
| <input type="checkbox"/> 1 course (3 hours) in CAGC Human/ Cultural Diversity in a Global Context | | _____ |
| <input type="checkbox"/> 2 courses (6 hours) in CAHU Humanities | _____ | _____ |
| <input type="checkbox"/> 2 courses (6 hours) from above must also meet HHCP Human Historical Context and Process dimension. | | |
| | ENC 1101* | _____ |

Exit/Upper-level Requirements: Choose either FKL or Liberal Arts depending on when you entered USF

- ❖ **FKL categories** – use if you entered USF Fall 2009 or later
- 1 course (3 hours) in CPST Capstone _____
- 1 course (3 hours) in WRIN Writing Intensive _____

*If Human Historical Context and Process dimension was not completed in Gen Ed, can be completed here

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