INTEGRATIVE ANIMAL BIOLOGY
ANIMAL TRACK (2018-2019)

DEPARTMENT OF INTEGRATIVE BIOLOGY

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- 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 (24-25 CREDIT HOURS)

- BSC 2010/L: Cellular Processes with lab
  - No prerequisites; must take lecture and lab together
- BSC 2011/L: Biodiversity with lab
  - No prerequisites; must take lecture and lab together
- PCB 3043/L: Ecology and lab
  - Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046
- PCB 3063/L: Genetics and lab
  - Prerequisites: BSC 2010/L and CHM 2046
- PCB 3712/3713L: Physiology and lab
  - Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046
- IAB Structure Option, choose 1 lecture and lab combo:
  - ZOO 3205C: Adv Invertebrate Zoology
    - Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063
  - ZOO 3713C: Comparative Vert Anatomy
    - Prerequisites: BSC 2010/L, BSC 2011/L and CHM 2046
  - BSC 4933: Vertebrate Natural History and lab
    - Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063
  - BSC 4933: Mammalogy and lab
    - Prerequisites: BSC 2011/L and PCB 3043, 3712 OR 3063

IAB ELECTIVE OPTIONS (15-16 CREDIT HOURS- MINIMUM OF 8 HOURS AT 4000+ LEVEL)*

- BSC 3312: Marine Biology
- BSC 4910: Undergraduate Research (max 4 credits)
- BSC 4933: Coral Reef Ecology
- BSC 4933: Ecosystem Ecology
- BSC 4933: Embryology
- BCH 4033: Biochemistry
- MCB 3020/L: Microbiology and Lab
- MCB 4404/L: Microbial Physiology and Genetics
- PCB 4674: Organic Evolution
- PCB 4723: Animal Physiology
- ZOO 4233: Parasitology
- ZOO 4377: Functional Morphology
- ZOO 4454/L: Fish Biology and lab
- ZOO 4513C: Animal Behavior

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 15 credit of IAB electives

SUPPORTING SCIENCE (32-34 CREDIT HOURS)

- CHM 2045/L: General Chemistry I and lab
  - Prerequisites: C or better in MAC 1105 or test equivalent
- CHM 2046/L: General Chemistry II and lab
  - Prerequisites: C or better in CHM 2045/L
- CHM 2210/L: Organic Chemistry I and lab
  - Prerequisites: C or better in CHM 2046/L
- CHM 2211/L: Organic Chemistry II and lab
  - Prerequisites: C or better in CHM 2210/L
- One Physics Sequence:
  - PHY 2053/L AND PHY 2054/L (non-calculus based, recommended for life science/pre-health majors)
  - PHY 2048/L AND PHY 2049/L (calculus based, must take MAC 2311 and 2312 math sequence)
  - PHY 2060+2048L AND PHY 2061+ 2049L (Enriched Physics, must take MAC 2311 and 2312 math sequence)
- Calculus I: MAC 2241 OR MAC 2311 OR MAC 2281
  - Prerequisites: C or better in MAC 1147 or test equivalent
- 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
- 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 Integrative Animal 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](http://www.ugs.usf.edu/catalog.htm)

GET INVOLVED!

- Undergraduate Research
- Lab and Field experience through a wide array of coursework
- USF Biology Club
- Pre-Health Profession Clubs
- USF Health Byrd Alzheimer’s Institute allows students to volunteer in the research labs
- Moffitt Cancer Center offers internships in various research areas
- Centers for Disease Control and Prevention (CDC) offers paid summer internships in Atlanta

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

Additional opportunities available for summer research and shadowing enrichment for pre-health students:
[http://www.cas.usf.edu/healthprofessions/involvement/enrichment/](http://www.cas.usf.edu/healthprofessions/involvement/enrichment/)

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