INTEGRATIVE ANIMAL BIOLOGY  (HUMAN TRACK)

DEPARTMENT OF INTEGRATIVE BIOLOGY

Students majoring in Integrative Animal Biology study the biology of animals. The program of study explores the structure and function of invertebrates, humans, and other vertebrates. The objective of the program is to provide students with a firm foundation in basic biology and the tools necessary to function as professional biologists.

**MAJOR REQUIREMENTS (24 CREDIT HOURS)**

- BSC 2010/L: Cellular Processes with lab
- BSC 2011/L: Biodiversity with lab
- PCB 3043/L: Ecology and lab
- PCB 3063/L: Genetics and lab
- BSC 2093C: Human Anatomy with Physiology I
- BSC 2094C: Human Anatomy with Physiology II

**MAJOR ELECTIVES OPTIONS (16 CREDIT HOURS)**

- BOT 3850: Medical Botany
- BSC 4933: Embryology
- BSC 4933: Epigenetics
- BSC 4933: Evolutionary Medicine
- BSC 4933: Genomics
- BSC 4933: Intro to Cancer Biology
- BSC 4933: Physiology of Movement
- BCH 4033: Biochemistry
- MCB 3020/L: Microbiology and Lab
- MCB 4202: Ecology of Infectious Diseases
- MCB 4404/L: Microbial Physiology and Genetics
- MCB 4503: Virology
- PCB 3712/3713: General Physiology and lab
- PCB 4234: Principles of Immunology
- PCB 4663: Human Genetics
- PCB 4674: Organic Evolution
- PCB 4744: Biomedical Physiology
- ZOO 4233: Parasitology
- ZOO 4753: Human Histology and Histopathology

**SUPPORTING SCIENCE (32-34 CREDIT HOURS)**

- CHM 2045/L: General Chemistry I and lab
- CHM 2046/L: General Chemistry II and lab
- CHM 2210/L: Organic Chemistry I and lab
- CHM 2211/L: Organic Chemistry II and lab
- PHY 2053/L OR PHY 2048/L: Physics I with lab
- PHY 2054/L OR PHY 2049/L: Physics II with lab
- Calculus I
  - MAC 2241 OR MAC 2311 OR MAC 2281
- Calculus II OR Statistics
  - MAC 2242 OR MAC 2312 OR STA 2023

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**BioAdvise**

Location: SCA 203  
Email: BioAdvise@usf.edu  
Phone: 813-974-3250  
biology.usf.edu/bioadvise
GET INVOLVED!

ON CAMPUS

✓ Undergraduate Research- Work one-on-one with faculty beginning your junior year with the possibility to be published!
✓ Lab and Field experience through a wide array of coursework
✓ USF Biology Club
✓ Pre-Health Profession Clubs

OFF CAMPUS

✓ 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: http://biology.usf.edu/bioadvise/involvement/clubs.aspx

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

SKILL SETS LEARNED IN THIS MAJOR CAN PREPARE YOU FOR THE FOLLOWING CAREER FIELDS*

Medical School | Physician Assistant | Physical Therapy | Pharmacy | Optometry | Education | Scientific Illustrator Consultant | Medical Assistance

*This is a general list and does not include all potential opportunities post-graduation. The combination of your in-class experiences and extra-curricula’s will help to shape your post-graduation plans.

Transfer and Exam Credits

Check your AP, IB and/or AICE credit to see how they will apply at USF: http://ugs.usf.edu/credit-by-exam/

Any Florida public dual enrollment credit will follow common course coding and will transfer easily!

Out-of-state and private science/math coursework will need to be evaluated: http://biology.usf.edu/bioadvise/registration/transfer/

Two years of consecutive high school foreign language will satisfy your foreign language requirement for Marine Biology.

Bachelors of Science to Masters of Arts and Teaching Accelerated program available!

ADDITIONAL DEGREE REQUIREMENTS

▫ ENC 1101 and ENC 1102
▫ Core Social Science
▫ Core Humanities
▫ FKL- Social and Behavioral Science
▫ FKL- Human and Cultural Diversity
▫ FKL- Fine Arts
▫ FKL- Humanities