INTEGRATIVE ANIMAL BIOLOGY (ANIMAL 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, with special emphasis on animals.

MAJOR REQUIREMENTS (24-25 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
- PCB 3712/3713L: Physiology and lab
- One of the following structure courses
  - ZOO 3713C: Comparative Vertebrate Anatomy
  - BSC 4933: Vertebrate Natural History and lab
  - ZOO 3205C: Advanced Invertebrate Zoology

MAJOR ELECTIVES OPTIONS (15-16 CREDIT HOURS)

- BSC 3312: Marine Biology
- BSC 4933: Coral Reef Ecology
- BSC 4933: Ecosystem Ecology
- BSC 4933: Evolutionary Medicine
- BSC 4933: Embryology
- BCH 4033: Biochemistry
- MCB 3020/L: Microbiology and Lab
- MCB 4202: Ecology of Infectious Diseases
- MCB 4404/L: Microbial Physiology and Genetics
- PCB 4674: Organic Evolution
- ZOO 4233: Parasitology
- ZOO 3407/L: Biology of Sharks and Rays and lab
- ZOO 4377: Functional Morphology
- ZOO 4454/L: Fish Biology and lab
- ZOO 4513C: Animal Behavior

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

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
✓ USF Pre-Veterinary Society
✓ USF Herpetology Club

OFF CAMPUS

✓ Big Cat Rescue has volunteer opportunities
✓ Lowry Park Zoo has internships and volunteer opportunities
✓ Florida Fish and Wildlife Research Institute (FWRI) has internships and volunteer opportunities
✓ 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
✓ Smithsonian Tropical Research Institute has paid internship opportunities in Panama
✓ MOTE Marine Lab offers internships and research experience for undergraduates

Please refer to the BioAdvise involvement website for links to the above opportunities: http://biology.usf.edu/bioadvise/involvement/clubs.aspx

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

Veterinary Medicine | Education | Zoology | Environmental Consultant | Scientific Illustrator | Animal Behaviorist
Medical Assistance | Animal Care | Aquarium and Zoo Biology

*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