Environmental Bio Concentration
Ecology and Biodiversity Track BS - 2010/12 Catalog
USF BioAdvise - SCA 203 bioadvise@cas.usf.edu Ph: 813/974.3250 Fax: 813/974.2876 - http://biology.usf.edu/bioadvise/

IB Department of Integrative Biology

Biology Major Requirements: 40 hours total
- Students must receive a C- or better to meet major requirements.
- Cascading Prerequisites are strictly enforced. CR = co-requisite, courses that can be taken concurrently.
- Students must earn a 2.0 GPA in all major coursework taken at USF.
- Students must have less than 3 D and/or F grades in biology major and supporting science requirement lectures.
- Students must complete a minimum of 20 hours in Biology major coursework on Tampa campus at USF.

Biology Core Curriculum: 16 hours
- BSC 2010 & 2010L Biology I Cellular Processes 4 hrs CHM 2045 (CR)
- BSC 2011 & 2011L Biology II Diversity 4 hrs BSC 2010/L
- PCB 3043 & 3043L Ecology and Lab 4 hrs BSC 2011/L, CHM 2046
- PCB 3063 & 3063L Genetics and Lab 4 hrs BSC 2010/L, CHM 2046

Ecology and BioDiversity Curriculum: 24 hours – min 8 hours must be 4000+level
- PCB 4674 Organic Evolution 3 hrs PCB 3063, CHM 2046
- PCB 4 Conservation Biology 3 hrs PCB 3043, CHM 2046, MAC 2241
- Choose 1 from:
  o BOT 4 Plant Ecology 3 hrs
  o PCB 5307 Limnology 3 hrs
  o PCB 4 Physiological Ecology 3 hrs
  o ZOO 5555 Marine Animal Ecology 4 hrs

- Additional Biology course options, Choose 14-15 additional hours of Biology Major courses from any Tampa Campus IB Department or CMMB Department course (course code prefix of BOT, BSC, ENY, MCB, PCB, or ZOO), with the exception of courses labeled as “not for major credit”
  - Must complete remaining hours necessary to meet the total 40 hours of biology required. If 9 hours completed in the rest of the eco/biodiversity core requirement, then must complete 15 hours in the advanced curriculum.
  - 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.
  - BCH 3023/L Intro to Biochemistry and lab are the only approved options not offered by IB or CMMB. (chemistry)

Supporting Sciences: 34 hours total
- Students must receive a C- or better to meet requirements for degree
- General Chemistry I & II: CHM 2045/L & CHM 2046/L (8 hrs) C (2.0) grade min
- Organic Chemistry I & II: CHM 2210/L & CHM 2211/L (10 hrs) C (2.0) grade min
- One of the General Physics sequences (8 hrs):
  o PHY 2053/L & 2054/L (non-calculus based, recommended for life science/pre-health majors)
  o PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence)
- Calc I: MAC 2241 Life Sciences, MAC 2281 Engineering, or MAC 2311 (4 hrs) C (2.0) grade min
- Calc II or Statistics: MAC 2242, MAC 2282, MAC 2312, or STA 2023 (4 hrs) C (2.0) grade min