**SCIENCE EDUCATION: Biology (S4100)**

**Prerequisites**

Education Prerequisites – 12 credits (3 credits each):

- EDF1005  
  Introduction to the Teaching Profession*
- EDF2085  
  Introduction to Diversity*
- EME2040  
  Introduction to Educational Technology
- EEX2000  
  Introduction to Special Education

Florida Department of Education Requirements:
- Communications (6 credits)
- Oral Communications (3 credits)
- Humanities (6 credits)
- Behavioral/Social Sciences (6 credits)
- DEP2000 recommended
- Mathematics (6 credits)
- Natural Sciences and Electives (23 credits)
  - BSC 2010  
    Principles of Biology I (3 credits)
  - BSC2010L  
    Lab (2 credits)
  - BSC2011  
    Principles of Biology II (3 credits)
  - BSC2011L  
    Lab (2 credits)
  - CHM1045  
    General Chemistry I (3 credits)
  - CHM1045L  
    Lab (2 credits)
  - CHM1046  
    General Chemistry II (3 credits)
  - CHM1046L  
    Lab (2 credits)
  - PSC1515  
    Energy in the Environment (3 credits)
- 9 credits of diversity
- Foreign Language requirement
- Completion of CGS1060 or an equivalent computer competency
- Fingerprinting requirement (Level II background clearance)
- Admission to the Baccalaureate Program
- 60 credits (General Education requirements)
- Minimum GPA of 2.5 on a 4.0 scale
- Passing all parts of the General Knowledge Test of the Florida Teacher Certification Examination
- All Education Prerequisites passed with a minimum grade of “C”

**Professional Education Core – 18 credits (3 credits each)**

- EDF4430  
  Measurement and Assessment in Education
- EDG3321  
  General Teaching Skills*
- EDG3443  
  Classroom and Behavior Management*
- EEX3071  
  Teaching Exceptional and Diverse Students in Inclusive Settings*
- RED3393  
  Differentiated Instruction in Content Reading*
- TSL4324C  
  ESOL Strategies for Content Area Teachers*

*FTCE Professional Test must be passed upon completion of the above Professional Education Core Courses.

**Science Education Discipline Content – 11 credits**

- EME3430  
  Instructional Technology in Math and Science (2 credits)
- SCE3863  
  Teaching and Learning the Nature of Science* (3 credits)
- SCE4362  
  Methods of Teaching Science* (3 credits)
- SCE4363  
  Advanced Topics in Science Education Practicum** (3 credits)

**Discipline Content – 23 credits**

- BCH3023  
  Introduction to Biochemistry (3 credits)
- BCH3023L  
  Lab (2 credits)
- BSC2020  
  Human Biology (3 credits)
- CHM2200  
  Survey of Organic Chemistry (3 credits)
- CHM2200L  
  Lab (1 credit)
- MCB2010  
  Microbiology (3 credits)
- MCB2010L  
  Lab (2 credits)
- PCB3043  
  Foundations of Ecology (3 credits)
- PCB3060  
  Principles of Genetics (3 credits)

*FTCE Subject Area Examination must be passed upon completion of the Practicum Course.

**Student Teaching/Internship – 12 credits**

- SCE4945  
  Internship in Science Education***
- SCE4943  
  Seminar in Science Education***

Prior to Internship the following must be completed:
- All parts of the Florida Teacher Certification Examination (General Knowledge Test, Professional Test and Subject Area Test) must be passed
- Florida Educator Accomplished Practices E-Portfolio must be approved
- All previous coursework completed with a minimum grade of “C”

*Course requires 15 hours of clinical experience
**Course requires 60 hours of clinical experience
***Course requires full-time clinical experience

THIS PROGRAM WILL BE OFFERED WHEN THERE ARE ENOUGH STUDENTS TO CREATE A COHORT.