### REQUIRED BIOLOGY COURSES (20 hrs)

- **BIOL 1440**: Principles of Biology I
- **BIOL 1441**: Principles of Biology II
- **BIOL 2490**: Genetics
- **BIOL 3190**: Economic Botany Lab
- **BIOL 3310**: Neuroethology: The Neural Basis of Natural Behavior
- **BIOL 3390**: Economic Botany
- **BIOL 3410**: Vertebrate Zoology
- **BIOL 3420**: General Microbiology
- **BIOL 4250/5250**: Scanning Electron Microscopy & Microanalysis
- **BIOL 4311/5311**: Pathophysiology
- **BIOL 4320/5320**: Neurodevelopment & Pathology
- **BIOL 4330/5330**: Principles of the Cardiovascular System
- **BIOL 4340/5340**: Immunology
- **BIOL 4351/5351**: General Pharmacology
- **BIOL 4360/5360**: Endocrinology
- **BIOL 4400/5400**: Histology
- **BIOL 4401/5401**: Invertebrate Zoology
- **BIOL 4404/5404**: Plant Taxonomy
- **BIOL 4405/5405**: Developmental Biology
- **BIOL 4406/5406**: Mammalogy
- **BIOL 4407/5407**: Ornithology
- **BIOL 4412/5412**: Organisms in Extreme Environments
- **BIOL 4415/5415**: Evolution
- **BIOL 4418/5418**: Biology of the Reptilia (Ecology)
- **BIOL 4421**: Pathogenic Microbiology
- **BIOL 4425/5425**: Experimental Neurobiology
- **BIOL 4428/5428**: Animal Physiological Ecology
- **BIOL 4430/5430**: Comparative Vertebrate Anatomy
- **BIOL 4435/5435**: Animal Behavior
- **BIOL 4440/5440**: Entomology
- **BIOL 4442/5442**: Restoration Ecology: Principles & Application
- **BIOL 4445/5445**: Biometry
- **BIOL 4450/5450**: Plant Ecophysiology
- **BIOL 4455/5455**: Ichthyology - the Biology of Fishes
- **BIOL 4460/5460**: Animal Physiology
- **BIOL 4461/5461**: Parasitology
- **BIOL 4465/5465**: Environmental Toxicology
- **BIOL 4470/5470**: Ecology of Seed Plants
- **BIOL 4475/5475**: Advanced Cell Biology
- **BIOL 4480/5480**: History of Life
- **BIOL 4530/5530**: Experimental Molecular Biology
- **CHEM 4320/4121**: Biochemistry I & Lab
- **ENVR 3410**: Environmental Theory and Application

### REQUIRED CHEMISTRY (16 hrs)

- **CHEM 1450**: College Chemistry I
- **CHEM 1451**: College Chemistry II
- **CHEM 2401**: Organic Chemistry I
- **CHEM 3411**: Organic Chemistry II
- **CHEM 4311/5311**: Pathophysiology
- **CHEM 4320/5320**: Neurodevelopment & Pathology
- **CHEM 4330/5330**: Principles of the Cardiovascular System
- **CHEM 4340/5340**: Immunology
- **CHEM 4351/5351**: General Pharmacology
- **CHEM 4360/5360**: Endocrinology
- **CHEM 4400/5400**: Histology
- **CHEM 4404/5404**: Plant Taxonomy
- **CHEM 4405/5405**: Developmental Biology
- **CHEM 4406/5406**: Mammalogy
- **CHEM 4407/5407**: Ornithology
- **CHEM 4412/5412**: Organisms in Extreme Environments
- **CHEM 4415/5415**: Evolution
- **CHEM 4418/5418**: Biology of the Reptilia (Ecology)
- **CHEM 4421**: Pathogenic Microbiology
- **CHEM 4425/5425**: Experimental Neurobiology
- **CHEM 4428/5428**: Animal Physiological Ecology
- **CHEM 4430/5430**: Comparative Vertebrate Anatomy
- **CHEM 4435/5435**: Animal Behavior
- **CHEM 4440/5440**: Entomology
- **CHEM 4442/5442**: Restoration Ecology: Principles & Application
- **CHEM 4445/5445**: Biometry
- **CHEM 4450/5450**: Plant Ecophysiology
- **CHEM 4455/5455**: Ichthyology - the Biology of Fishes
- **CHEM 4460/5460**: Animal Physiology
- **CHEM 4461/5461**: Parasitology
- **CHEM 4465/5465**: Environmental Toxicology
- **CHEM 4470/5470**: Ecology of Seed Plants
- **CHEM 4475/5475**: Advanced Cell Biology
- **CHEM 4480/5480**: History of Life
- **CHEM 4530/5530**: Experimental Molecular Biology

### REQUIRED PHYSICS (8 hrs)

- **PHYS 1410**: College Physics I
- **PHYS 1420**: College Physics II
- **PHYS 4400/5400**: Histology
- **PHYS 4404/5404**: Plant Taxonomy
- **PHYS 4405/5405**: Developmental Biology
- **PHYS 4406/5406**: Mammalogy
- **PHYS 4407/5407**: Ornithology
- **PHYS 4412/5412**: Organisms in Extreme Environments
- **PHYS 4415/5415**: Evolution
- **PHYS 4418/5418**: Biology of the Reptilia (Ecology)

### REQUIRED MATHEMATICS (7 hrs)

- **MATH 1491**: Calculus for Life Science OR
- **MATH 1496**: Calculus I
- **MATH 2311**: Statistical Methods I (or PSYC 2330)

### BS Biology Graduation Requirements:

- Lower Level CORE
- Upper Level CORE
- Biology Major Requirements with a 2.00 or higher GPA
- Minimum of 120 hours with a 2.00 or higher GPA
- Minimum of 40 hours upper division courses

### STEM Teach:

Ask your advisor about teaching options!

### NOTE: All biology courses have prerequisite requirements found in the undergraduate bulletin

### Biology Electives:

**Major without a minor**: (28) hrs chosen from the following, including a minimum of four (4) laboratory courses

**Major with a minor**: (20 hrs) chosen from the following, including a minimum of four (4) laboratory courses

### Gulf Coast Research Laboratory/Courses: Contact

Dr. Noyes at 450-5926 or refer to the Undergraduate Bulletin

Up to 4 hrs of Independent Study, Internship and/or Research may count as biology elective credit with department approval.

Revised 2/21/14