

## BIOLOGY MAJOR REQUIREMENTS

### REQUIRED BIOLOGY COURSES (20 hrs)

_____	BIOL 1440	Principles of Biology I
_____	BIOL 1441	Principles of Biology II
_____	BIOL 2490	Genetics
_____	BIOL 3402	Cell Biology
_____	BIOL 3403	General Ecology

### REQUIRED CHEMISTRY (16 HRS)

_____	CHEM 1450	College Chemistry I
_____	CHEM 1451	College Chemistry II
_____	CHEM 2401	Organic Chemistry I
_____	CHEM 3411	Organic Chemistry II

### REQUIRED PHYSICS (8 hrs)

_____	PHYS 1410	College Physics I
_____	PHYS 1420	College Physics II

### 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

### Biology Electives:

_____	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	Biology 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

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