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 (7 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 highter 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 choses 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 Undergraduate Bulletin

Revised 1/12/18

Biology Electives:

_____ BIOL 3190 Economic Botany Lab
_____ BIOL 3310 Neuroethology: The Neural Basis of Natural Behavior
_____ BIOL 3360 Intro to Marine Biology
_____ 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.