

## B.S. DEGREE

**36 HOURS OF BIOLOGY (9 or more courses), to include:  
BEGINNING FALL 2005 (updated copy - 11/06/2007)**

- ▶ 141 Foundations of Modern Biology I, with Laboratory **OR** 151 Introductory Experimental Biology I, with Laboratory
- ▶ 142 Foundations of Modern Biology II, with Laboratory **OR** 151 Introductory Experimental Biology II, with Laboratory
  
- ▶ One Biology course from each of the following areas:

COLUMN A	COLUMN B	COLUMN C
<i>Cell &amp; Molecular</i>	<i>Organismal</i>	<i>Ecology/Evolution</i>
301 Biochemistry I	205 Comp. Vertebrate Anatomy w/Lab	329 Coastal Biology w/Lab
302 Biochemistry II	206 Biology of Parasites w/Lab	341 Evolutionary Biology
323 Developmental Biology	336 Human Physiology	345 Conservation Biology (ENVS 345S)
330 Chem, Bio, & Molec Mod. (Chem 330)	348 Mechanisms of Animal Behavior	347WR/347L Ecology w/Lab *
350/350L Cell Biology w/Lab	360 Intro to Neurobiology / 470 [360L] Virtual Neuroscience	349SAF Ecology of Invasions (Study Abroad course)
364 Human Genetics	402SWR Neuroscience Live	353 Genetics Complex Traits
370/370L Intro to Microbiology w/Lab	450 Computational Neuroscience	430S Human Genome Project & Disease
415 Cancer Biology & Oncogenes	455 Immunology & Disease	441 Molecular Biology & Evolutionary Genetics
425 Principles of Genetic Engineering	460S Building Brains	463S Population Biology and Evolution of Disease
465 Molecular Genetics	470 Plant Biology w/Lab [310]	470 Bioinformatic & Biotechnology w/Lab
470 Microbiology-Up Close & Personal		470 Biology of Sustainability w/Lab
470S Epigenetics & Human Disease		470 Food Toxicology & Ecology w/Lab
470S Human Genome: Promise & Perils		470S Origins & Evolution of the Immune System [354]
470S Membrane Biology		470S Biochemical Arms Race
		470S Co-Evolution
		470S Foundations of Disease Ecology
		480/480L Modeling Biological Systems w/Lab

- ▶ Four electives from the biology course listings, but not to include Biology 497R (Supervised Reading), which can be applied to College credit hours, but not to the biology major. Biology 499R (Undergraduate Research) may be taken for up to 4 credit hours toward the biology major as elective credit.
  
- ▶ Chemistry, Math, and Physics requirements, as follows:  
Chemistry 141 and 142, with Lab (or Chemistry 171 with 221 Lab and Chemistry 172 with 222 Lab), Chemistry 221 with 221 Lab, Math (107, 111, 112, 115, or 116), and Physics 141 (or 151), with Laboratory. (Chemistry 141 and 142 (or 171 and 172) are pre- or co-requisites for Biology 141 & 142.)

**NOTES:**

- ▶ Biology 141 and 142 are prerequisites for all upper level courses in biology.
- ▶ A "C" average is required in the major.
- ▶ All courses required for the Biology degree must be taken for a letter grade.
- ▶ Only one cross-listed course that originates in another department may be counted for the biology major.
- ▶ 2-credit hour courses may be taken for elective credit; however, additional 2-credit biology courses will be needed to fulfill the 36 hours required.

**Pre-Med STUDENTS SHOULD CONSULT A GUIDE TO MEDICAL SCHOOL ADMISSION REQUIREMENTS.  
Pre-Med Advisor: Charles Collier - (404) 727-0511**