B.S. DEGREE

36 HOURS OF BIOLOGY (9 or more courses), to include:

BEGINNING FALL 2006 (updated copy - 3/9/2009)

► **141** Foundations of Modern Biology I, with Laboratory **OR** 151 Introductory Experimental Biology I, with Laboratory (151 currently not available)

► **142** Foundations of Modern Biology II, with Laboratory **OR** 151 Introductory Experimental Biology II, with Laboratory (152 currently not available)

► **One Biology course from each of the following areas**:

** = orignates in another department

COLUMN A	COLUMN B	COLUMN C
Cell & Molecular	*Organismal*	*Ecology/Evolution*
301 Biochemistry I (Chem 301)	205 Comp. Vertebrate Anatomy w/Lab *	329 Coastal Biology w/Lab * (not avail)
302 Biochemistry II (Chem 302)	206 Biology of Parasites w/Lab *	341 Evolutionary Biology (now 241)
323 Developmental Biology (now 223)	336 Human Physiology	345** Conservation Biology (Envs 345)
330** Chem, Bio, & Molec Mod. (Chem 330)	348 Mechanisms of Animal Behavior	347WR/347L Ecology w/Lab * (now 247 & 247L)
350 Cell Biology (now 250)	360 Intro to Neurobiology / 360L Neurobiology	349SAF Ecology of Invasions (Study Abroad course)
364 Human Genetics (now 264)	Simulation Lab * (NBB 301/301L) [260/360L]	353 Genetics Complex Traits
370/370L Intro to Microbiology w/Lab *	402SWR Neuroscience Live	354 Origins & Evolution of the Immune System
415 Cancer Biology & Oncogenes	450 Computational Neuroscience	430S Human Genome Project & Disease
425 Principles of Genetic Engineering	455 Immunology & Disease	441 Molecular Biology & Evolutionary Genetics
465 Molecular Genetics	460S Building Brains	463S Population Biology and Evolution of Disease
470 Microbiology-Up Close & Personal	470 Organismal Form & Function	470 Bioinformatics & Biotechnology w/Lab * (not avail)
470S Epigenetics & Human Disease	470 Plant Biology w/Lab * [310] (not avail)	470 Biology of Sustainability w/Lab * (not avail)
470S Human Genome: Promise & Perils		470 Food Toxicology and Ecology w/Lab * (not avail)
470S Membrane Biology (not avail)		470S Biochemical Arms Race (not avail)
		470S Co-Evolution
		470S Foundations of Disease Ecology
		480/480L Modeling Biological Systems w/Laboratory *

► **Four electives** (16 credit hours) 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 and will fulfill one upper-level laboratory.

► **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 hour biology courses will be needed to fulfill the 16 hours of elective credit and 36 hours total credit required.

► Effective Fall 2006, two upper-level Biology laboratory courses will be required for the Biology major (for Freshmen entering Fall 2006 and later). These lab courses may come from column courses, research courses, or elective courses.

► * = Fulfills the upper-level laboratory requirement.