

BACHELOR OF SCIENCE IN BIOLOGY - BIOMEDICAL

INTRODUCTION

Biological Science is the study of God's created life and is therefore one of the broadest subjects you can study. Biology encompasses everything from the minute (molecular study of life processes) to the gigantic (animal and plant communities/ biomes). Most of our classes have both lectures and labs. Due to a common core, lateral transition to a B.A. degree is possible even in the Junior or Senior years. B.S. degrees don't require a minor, but you automatically qualify for a chemistry minor if you wish.

SPECIALTY

Academically strong students interested in the medical fields often choose the Biomedical Track. Our large selection of elective classes taken the first three years of school prepares students well for the professional tests in many areas, including medicine (MCAT), and dentistry (DAT). Previous students share that classes taken the fourth year put them ahead of most peers as they transition into professional school.

SKILLS

Biology degrees start with core classes to give you a basic understanding of the terminology used and the wide range of topics to enjoy. As you progress through the degree, the classes become more specialized and deeper in detail. You will develop key skills such as using a wide range of laboratory equipment, collecting and analysing data, building teams, strong written and oral communication, leadership, and time management.

65 HOURS = CORE (45) + COGNATES (20)

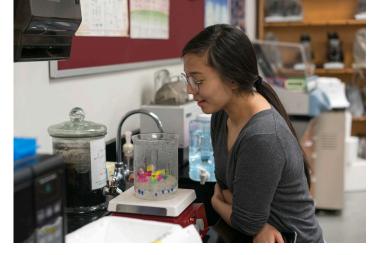
	BIOLOGY CORE	HOURS		COGNATES	HOURS
BIOL 151-152	General Biology I & II	8	CHEM 361	Biochemistry I	4
BIOL 282	Biological Analysis	3	CHEM 311-312	Organic Chemistry I & II	8
BIOL 311	Genetics	4	PHYS 211-212	General Physics I & II*	6
BIOL 317 or 321	Ecology (Fall) or Field Ecology (Summer)	3	PHYS 213-214	General Physics I & II Lab	2
BIOL 412	Cell & Molecular Biology	4			20
BIOL 424	lssues in Nat Sci & Rel (W)	3		HIGHLY RECOMMENDED	HOURS
BIOL	Biology Electives *	12	ACCT 221	Principles of Accounting	3
CHEM 151-152	General Chemistry I & II	8	BIOL 297	Research in Biology I	1 - 2
*Contact School of Engineering & Physics regarding pre-requisites.		45	PSYC 122	General Psychology	3

	BIOLOGICAL SYSTEMS	
BIOL 313	Developmental Biology	3
BIOL 416	Human Anatomy	3
BIOL 417	Animal Histology	3
BIOL 418	Animal Physiology	3
	CLINICAL SCIENCES	
BIOL 315	Human Parasitology (W)	3
BIOL 329	General Microbiology	3
BIOL 333	Medical Toxinology	3
BIOL 340	Immunology	3
BIOL 450	Epidemiology	3

ELECTIVE AREAS (12 HRS)**

	ORGANISMAL BIOLOGY	
BIOL 252	Tropical Biology (Summer)	3
BIOL 314	Ornithology	3
BIOL 320	Entomology	3
BIOL 321	Field Ecology (Summer)	3
BIOL 387	Animal Behavior	3
BIOL 415	Comparative Anatomy	3
BIOL 458	Ecotoxicology	3

** Take one class from each category plus one more from any category. See course schedule for topics courses that may by applied to any elective area.



B.S. BIOLOGY/BIOMEDICAL EMPHASIS 4-YEAR SUGGESTED PLAN SHEET

FALL SEMESTER	HOURS	WINTER SEMESTER	HOURS
FRESHMAN YEAR			
BIOL 151: General Biology I (I-7)	4	BIOL 152: General Biology II (I-7)	4
CHEM 151: General Chemistry I	4	CHEM 152: General Chemistry II	4
ENGL 101: Crit Thnk in Ac Rdg/Wrt I (I-2)	3	ENGL 102: Crit Thnk in Ac Rdg/Wrt II (I-2)	3
COMM 135: Comm & Pub Spkg (I-3)	3	BIOL 282: Biological Analysis	3
NOND 101: Southern Connections (I-1)	1	PEAC 125: Fitness for Collegiate Life (P-1)	1
	15		15
SOPHOMORE YEAR			
BIOL 311: Genetics	4	RELT 138, 225, or 255 (R-2)	3
CHEM 311: Organic Chemistry I	4	CHEM 312: Organic Chemistry II	4
MATH 215: Statistics (I-4)	3	Biology Elective *	3
Physical Activity (P-1b)	1	Historical Perspectives (IN-6)	3
RELB 125 or RELT 177 (R-1)	3	Elective **	3
Elective **	1		16
	16		
JUNIOR YEAR			
CHEM 361: Biochemistry I	4	BIOL 412: Cell & Molecular Biology	4
CPTE 100: Computer Concepts	1	PHYS 212: General Physics II	3
PHYS 211: General Physics I	3	PHYS 214: General Physics II Lab	1
PHYS 213: General Physics I Lab	1	Biology Elective *	3
Aesthetic Analysis (IN-10)	3	Physical Activity (P-1b)	1
Biblical Studies (R-3)	3	UD Elective ** (W)	4
	15		16
SENIOR YEAR			
BIOL 317 or 321: Ecology or Field Ecology (Summer)	3	PEAC 425: Fit for Hire (P-3)	1
BIOL 424: Issues in Nat Sci & Rel (W)	3	PSYC 128 or SOCI 125 (I-8)	3
UD Biology Elective *	3	UD Biology Elective *	3
Stewardship, Business & Econ (IN-9)	3	UD Religion (W) (R-4)	3
Elective **	3	Electives **	6
	15		16
		"W" Classes TOTAL HOURS	124
		"S" Classes	

* Take one class from each category plus one more from any category. See course schedule for topics courses that may by applied to any elective area. ** Electives bring total credit hours to 124. Highly Recommended Electives: ACCT 221, MGNT 334, PSYC 122, BIOL 297 (1-2 hours) or BIOL 476 (1-2 hours).