

# BACHELOR OF ARTS IN BIOLOGY

## 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 the Biomedical Track is possible up to the Junior year. This B.A. degree requires a minor (usually chemistry) and two years of H.S. or one year of college foreign language.

## SPECIALTY

The B.A. in Biology is designed for those who want a little more flexibility in their degree. It fits well with pre-dental students wanting to take a few business classes, transfer students trying to make the most of their transfer credits, and those not needing all the typical pre-medical classes. About one-third of our pre-med students take this degree to allow them to take other specialty classes. For those heading to the medical or dental professions, this degree is only a couple of classes different than the B.S. degrees. It is also a springboard into job-assured high school teaching.

## 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 analyzing data, building teams, strong written and oral communication, leadership, and time management.

### 42 HOURS

BIOLOGY CORE			HIGHLY RECOMMENDED		
		HOURS			HOURS
BIOL 151-152	General Biology I & II	8	CHEM 311-312	Organic Chemistry I & II	8
BIOL 282	Biological Analysis	3	CHEM 361	Biochemistry I	4
BIOL 311	Genetics	4	MATH 120	Pre-calculus Algebra	0-3
BIOL 317 or 321	Ecology (Fall) or Field Ecology (Summer)	3	MATH 121	Pre-calculus Trigonometry	0-2
BIOL 412	Cell & Molecular Biology	4	PHYS 211-212	General Physics I & II*	6
BIOL 424	Issues in Nat Sci & Rel (W)	3	PHYS 213-214	General Physics I & II Lab	2
BIOL	Biology Electives *	9			
CHEM 151-152	General Chemistry I & II	8			

\*Contact School of Engineering & Physics regarding pre-requisites.

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### ELECTIVE AREAS (9 HRS)\*\*

BIOLOGICAL SYSTEMS			ORGANISMAL BIOLOGY		
BIOL 313	Developmental Biology	3	BIOL 252	Tropical Biology (Summer)	3
BIOL 416	Human Anatomy	3	BIOL 314	Ornithology	3
BIOL 417	Animal Histology	3	BIOL 320	Entomology	3
BIOL 418	Animal Physiology	3	BIOL 321	Field Ecology (Summer)	3
			BIOL 387	Animal Behavior	3
			BIOL 415	Comparative Anatomy	3
			BIOL 458	Ecotoxicology	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			

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



## B.A. BIOLOGY (With Chemistry Minor) 4-YEAR SUGGESTED PLAN SHEET

FALL SEMESTER	HOURS	WINTER SEMESTER	HOURS
<b>FRESHMAN YEAR</b>			
___ BIOL 151: General Biology I (I-7)	4	___ BIOL 152: General Biology II (I-7)	4
___ COMM 135: Comm & Pub Spkg (I-3)	3	___ ENGL 102: Crit Thnk in Ac Rdg/Wrt II (I-2)	3
___ CPTC 100: Computer Concepts (I-5)	1	___ MATH 215: Statistics (I-4)	3
___ ENGL 101: Crit Thnk in Ac Rdg/Wrt I (I-2)	3	___ RELB 125 or RELT 177 (R-1)	3
___ NOND 101: Southern Connections (I-1)	1	___ Aesthetic Analysis (IN-10)	3
___ PEAC 125: Fitness for Collegiate Life (P-1)	1		<b>16</b>
___ Elective	3		
	<b>16</b>		
<b>SOPHOMORE YEAR</b>			
___ BIOL 282: Biological Analysis	3	___ CHEM 152: General Chemistry II	4
___ BIOL 311: Genetics	4	___ RELT 138, 225, or 255 (R-2)	3
___ CHEM 151: General Chemistry I	4	___ BIOL: Biology Elective *	3
___ Foreign Language or Elective **	3	___ Foreign Language or Elective **	3
___ Physical Activity (P-1b)	1	___ Elective	3
	<b>15</b>		<b>16</b>
<b>JUNIOR YEAR</b>			
___ CHEM 311: Organic Chemistry I (Chem minor)	4	___ BIOL 412: Cell & Molecular Biology	4
___ RELB except 125 (R-3)	3	___ CHEM 312: Organic Chemistry II (Chem minor)	4
___ PSYC 128 or SOCI 125 (I-8)	3	___ Historical Perspectives (IN-6)	3
___ Elective (sugg. General Physics I)	4	___ Elective (sugg. General Physics II)	4
___ Physical Activity (P-1b)	1		<b>15</b>
	<b>15</b>		
<b>SENIOR YEAR</b>			
___ BIOL 317 or 321: Ecol or Field Ecol (Summer)	3	___ BIOL: UD Biology Elective *	3
___ BIOL 424: Issues in Nat Sci & Rel (W)	3	___ PEAC 425: Fit for Hire (P-3)	1
___ BIOL: UD Biology Elective *	3	___ Stewardship, Business & Econ (IN-9)	3
___ CHEM Elective minor (sugg. Biochemistry I)	4	___ UD Religion (W) (R-4)	3
___ UD Elective (W)	3	___ UD Elective	5
	<b>16</b>		<b>15</b>
		___ ___ ___ "W" Classes	TOTAL HOURS 124
		___ ___ "S" Classes	

\*One course from each of the 3 biology elective areas: Biological Systems, Organismal Biology, and Clinical Sciences.

\*\* Language waived if 2 yrs. high school language taken with grade of B or better. If not, 6 hrs. elementary language required for B.A.