

# **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

**BIOL 313** 

**BIOL 416** 

**BIOL 417** 

**BIOL 418** 

**BIOL 315** 

**BIOL 329** 

**BIOL 333** 

**BIOL 340** 

**BIOL 450** 

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.

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	BIOLOGY CORE	HOURS		HIGHLY RECOMMENDED	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 125	Pre-calculus Algebra & Trigonometry	4
BIOL 317 or 321	Ecology (Fall) or Field Ecology (Summer)	3	PHYS 211-212	General Physics I & II**	6
BIOL 412	Cell & Molecular Biology	4	PHYS 213-214	General Physics I & II Lab	2
BIOL 424	Issues in Nat Sci & Rel (W)	3	**Contact School of Engineering & Physics regarding pre-requistes.		
BIOL	Biology Electives*	9			
CHEM 151-152	General Chemistry I & II	8			
		42			

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

3

3

3

3

3

42 HOURS

#### **BIOLOGICAL SYSTEMS ORGANISMAL BIOLOGY** 3 **Developmental Biology BIOL 252 Tropical Biology (Summer)** 3 **BIOL 314** Human Anatomy Ornithology **Animal Histology** 3 **BIOL 320** Entomology 3 **Animal Physiology BIOL 321** Field Ecology (Summer)

**BIOL 387** 

**BIOL 415** 

**BIOL 458** 

**Animal Behavior** 

Ecotoxicology

**Comparative Anatomy** 

3

3

3

3 3

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3

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

**CLINICAL SCIENCES** 

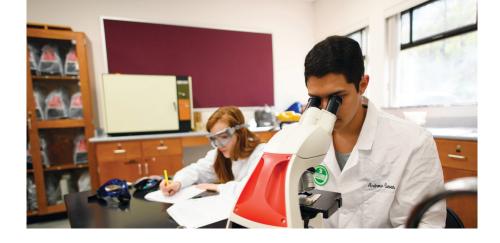
Human Parasitology (W)

**General Microbiology** 

Medical Toxinology

Immunology

Epidemiology



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

FALL SEMESTER	HOURS	WINTER SEMESTER H	I O U R S
FRESHMAN YEAR			
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
CPTE 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		16
Elective	3		_
	16		
SOPHOMORE YEAR			
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
	15		16
JUNIOR YEAR			
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		15
	15		
SENIOR YEAR			
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
	16		15
		"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.