

MAJOR: **Biology**  
CONCENTRATION: **Health Professions (Physician Assistant, Physical Therapy, Pharmacy, etc.) (HP)**

Name \_\_\_\_\_  
ID \_\_\_\_\_ Date \_\_\_\_\_  
Telephone \_\_\_\_\_ Email \_\_\_\_\_  
Advisor \_\_\_\_\_

SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS	SEMESTER TAKEN	COURSE CODE	COURSE TITLE	CREDIT HOURS
<b>FRESHMAN Semester 1</b>				<b>FRESHMAN Semester 2</b>			
_____	BIO 111-01	Introductory Biology I Lecture	3	_____	BIO 112-01	Introductory Biology II Lecture	3
_____	BIO 111-61	Introductory Biology I Lab	1	_____	BIO 112-61	Introductory Biology II Lab	1
_____	CHE 111-01	General Chemistry I Lecture	3	_____	CHE 112-01	General Chemistry II Lecture	3
_____	CHE 111-61	General Chemistry I Lab	1	_____	CHE 112-61	General Chemistry II Lab	1
_____	MAT 114	Analysis II	3-4	_____	THE 103	Spirit-Empowered Living	3
_____	or MAT 201	Calculus I	_____	_____	GOV 101	American Government	3
_____	COMP 102	Reading and Writing in Liberal Arts	3	_____	HPE 002	Health Fitness II	1
_____	PRF 070	Swimming Proficiency	0	_____	BIO 259	Scientific Terminology	2
_____	HPE 001	Health Fitness I	1				17
_____	GEN 099	Whole Person Assessment	0				
_____	PHP 100	Pre-Health Professions Seminar 1 (Semester 1 or 2)	1				
			16-17				

<b>SOPHOMORE Semester 3</b>				<b>SOPHOMORE Semester 4</b>			
_____	BIO 310	Microbiology Lecture#	3	_____	PHS 223-01	Human Anatomy I	3
_____	BIO 310	Microbiology Lab#	1	_____	PHS 223-61	Human Anatomy Lab	1
_____	BIO 370	Methods in Biotechnology	1	_____	CHE 212-01	Organic Chemistry II Lecture	3
_____	CHE 211-01	Organic Chemistry I Lecture	3	_____	CHE 212-61	Organic Chemistry II Lab	1
_____	CHE 211-61	Organic Chemistry I Lab	1	_____	HUM _____	Humanities Elective (see back)	3
_____	HUM 101	Introduction to Humanities	3	_____	BLIT 120	Survey of New Testament Literature	3
_____	BIO 200	Human Cadaver Dissection	1	_____	HIS 101	American History	3
_____	BLIT 110	Survey of Old Testament Literature	3	_____	HPE _____	HPE Activity	0.5
_____	HPE 026	Swimming*	0.5				17.5
			16.5				

\*May be replaced by HPE Activity if Swimming Proficiency passed.

<b>JUNIOR Semester 5</b>				<b>JUNIOR Semester 6</b>			
_____	PHY 101	General Physics I Lecture**	3	_____	BIO 372	Intro to Biological Research	1
_____	PHY 101	General Physics I Lab**	1	_____	PHY 102	General Physics II Lecture***	3
_____	MAT 332	Biostatistics	3	_____	PHY 102	General Physics II Lab***	1
_____	HUM _____	Humanities Elective	3	_____	BIO _____	Biology Elective-Upper Div. Lecture#	3
_____	PHS 224-01	Human Physiology	3	_____	BIO _____	Biology Elective-Upper Div. Lab#	1
_____	PHS 224-01	Human Physiology Lab	1	_____	HUM _____	Humanities Elective	3
_____	COM 101	Oral Communication	3	_____	COMP 303	Critical Reading and Writing	3
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			17.5				15.5

PCAT, GRE, or other preprofessional exam should be taken at the end of the junior year.

\*\*PHY 111 may be substituted.

\*\*\*PHY 112 may be substituted.

<b>SENIOR Semester 7</b>				<b>SENIOR Semester 8</b>			
_____	BIO 499	Research and Senior Paper	3	_____	BIO 451	Biology Seminar	1
_____	_____	Social Science Elective (see back)	3	_____	BIO 456	Bioethics	3
_____	BIO _____	Biology Elective-Upper Div. Lecture#	3	_____	_____	Elective*	1-2
_____	BIO _____	Biology Elective-Upper Div. Lab#	1	_____	_____	Elective*	3
_____	BIO 312	Ecology or Field Biology Lecture#	3	_____	BIO _____	Biology Elective-Upper Div. Lecture#	3
_____	BIO 312	Ecology or Field Biology Lab#	1	_____	BIO _____	Biology Elective-Upper Div. Lab#	1
_____	HPE _____	HPE Activity	0.5	_____	HPE _____	HPE Activity	0.5
			14.5				12.5-13.5

\*Follow recommendations of your pre-health professions advisor and the specific health professions college (see back page).

**Bachelor of Science in Biology**  
Concentration: Health Professions

2011-2012

<b>General Education</b>	<b>Credit Hours</b>
Whole Person Assessment (GEN 099)	0
Oral Communication (COM 101)	3
English (COMP 102, COMP 303)	6
American History (HIS 101)	3
Introduction to Humanities (HUM 101)	3
Christian Worldview and Culture (HUM 301)	3
Humanities Electives (Choice of two of the following: HUM 222, 233, 244, 333, or HONR 102)	6
American Government (GOV 101)	3
Mathematics (MAT 332)	3
General Physics I Lecture and Laboratory (PHY 101 or PHY 111)	4
General Physics II Lecture and Laboratory (PHY 102 or PHY 112)	4
Biblical Literature (BLIT 110, 120)	6
Theology (THE 103)	3
Health Fitness, Physical Ed. (HPE 001, 002, ____)	5
Social Science Electives (Choice of one of the following):	3
PSY 201 Introduction to Psychology	
SOC 201 Marriage and Family	
FIN 244 Personal Financial Planning	
<b>General Education Total</b>	<hr/> <b>55</b>
<b>Major</b>	
Introductory Biology Lecture and Lab (BIO 111 or 112)	8
Methods in Biotechnology (BIO 370)	1
Introduction to Biological Research (BIO 372)	2
Ecology (BIO 312) or Biology field course with laboratory (BIO 458 or Au Sable courses)	4
Bioethics (BIO 456)	3
Biology Seminar (BIO 451)	1
Research/Senior Paper (BIO 499)	3
Biology Electives (Choose any four of the following and include one of the following recommended courses*):	16
BIO 310 Microbiology with Laboratory*	
BIO 311 Genetics with Laboratory*	
BIO 411 Molecular Cell Biology with Laboratory*	
BIO 421 General and Comparative Physiology with Laboratory	
BIO 431 Developmental Biology with Laboratory	
BIO 457 Principles of Immunology with Laboratory	
BIO 454 Special Topics (May be taken only once.) (See catalog.)	
<b>Major Total</b>	<hr/> <b>37</b>
<b>Cognate</b>	
Mathematics (choice of the following):	
MAT 114 Math Analysis II	3-4
MAT 201 Calculus	
General Chemistry Lecture and Laboratory (CHE 111 and 112)	8
Organic Chemistry Lecture and Laboratory (CHE 211 and 212)	8
	<hr/> <b>19-20</b>
Cognate can be expanded into a Biochemistry minor by taking Biochemistry (CHE 459) Lecture and Laboratory.	
<b>Concentration</b>	
Scientific Terminology (BIO 259)	2
Human Anatomy Lecture and Laboratory (PHS 223)	4
Human Physiology Lecture and Laboratory (PHS 224)	4
Pre-Health Professions (PHP 100)	1
Human Cadaver Dissection (BIO 200)	1
	<hr/> <b>12</b>
<b>Note:</b> Many health profession schools have unique requirements. Check school catalog where matriculation is intended to fulfill prerequisites and follow advice of pre-health professions advisor.	
<b>Electives</b>	<b>4-5</b>
<b>Degree Total</b>	<hr/> <b>127-129</b>