

## **ADVISING WORKSHEET**

## BACHELOR OF SCIENCE DEGREE MAJOR IN BIOLOGY General Bulletin 2013-2015

Montana State University Billings Advising Center Phone: 406-657-2240 Fax: 406-657-2302 advising@msubillings.edu

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Name	 	-
Student ID#	 	-

## GENERAL EDUCATION REQUIREMENTS - SEE ATTACHED PAGE FOR SPECIFIC COURSES

General Education Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits) M 171 or STAT 216 – Major requirement					
B. English (3 credits)	WRIT 101				
C. Communication & Information Literacy (3 credits)					
Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab)					
BIOB 160/161 & CHMY 141 – Major requirements					
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits)					
B. History (3 credits)					
Category IV: Cultural Diversity (3 credits)					
Category V: Arts & Humanities (6 credits) A. Fine Arts (3 credits)					
B. Humanities (3 credits)					

A minimum grade of "C-"is required in all General Education courses.

Note: Certain degrees may require a minimum grade of "C" in General Education courses.

Students should consult with their advisors to determine if specific courses are necessary in order to satisfy the General Education requirements within this program.

Certain courses in this program have prerequisites; students should check the course descriptions in the General Bulletin for required prerequisites.

Reviewed:											

## GENERAL EDUCATION REQUIREMENTS

CATEGO	DRY I: (	GLOBAL ACADEMIC SKILLS	9 credits	HSTA	102	American History II	3
		uired to take one course from each su		HSTR	101	Western Civilization I	3
		- Mathematics	3 credits	HSTR	102	Western Civilization II	3
M	105	Contemporary Mathematics	3	HSTR	103	Honors Western Civilization I	3
M	114	Extended Technical Mathematics	3	HSTR	104	Honors Western Civilization II	3
M	121	College Algebra	3	PSCI	230	Introduction to International Relation	ns 3
M	122	College Trigonometry	3				
M	131	Mathematics for Elementary Teach		CATEGO	RY IV:	CULTURAL DIVERSITY	3 credits
M	143	Finite Mathematics	4	A&SC/WGS		Women, Culture, and Society	3
M	171	Calculus I	4	ANTY	220	Culture and Society	3
STAT	141	Introduction to Statistical Concepts	3	ARTH	160	Global Visual Culture	3
STAT	216	Introduction to Statistical Concepts  Introduction to Statistics	4	COMX	212	Introduction to Intercultural Commu	
		- English	3 credits	GPHY	121	Human Geography	3
WRIT	101	College Writing I	3	HTH	270	Global Health Issues	3
WRIT	121	Introduction to Technical Writing	3	LIT	230	World Literature Survey	3
WRIT	122	Introduction to Business Writing	3	MUSI	207	World Music	3
WRIT	201	College Writing II	3	NASX	105	Introduction to Native American Stu	
WRIT	220	Business & Professional Writing	3	NASX	205	Native Americans in Contemporary	
WRIT	221	Intermediate Technical Writing	3	PHL	271	Philosophy & Religion of India	3
		· Communication & Information Liter	-	PHL	272	Philosophy & Religion of China/Tib	
BMIS	150	Computer Literacy	3	REHA	201	Introduction to Diversity in Counseli	
COMX	111	Introduction to Public Speaking	3	RLST	170	The Religious Quest	3
COMX	115	Introduction to Interpersonal Comm		SPNS	150	The Hispanic Tradition	3
LSCI	125	Research in the Information Age	3	51115	150	The Hispanic Tradition	3
			-	CATTEGG	DX/ \$7.	ARTS & HUMANITIES	6 credits
CATEGO	DRV II.	NATURAL SCIENCES 6 cr. lecture	& 1 cr lah				
						uired to take one course from each sub	
		uired to take one course from each su			- •	- Fine Arts	3 credits
		responding lab <u>or</u> SCIN 101, 102, 103	3-4 credits	ARTZ	101	Art Fundamentals	3
BIOB	101	<ul><li>Life Sciences</li><li>Discover Biology</li></ul>	3	ARTZ	105	Visual Language-Drawing	3
BIOB	101	Discover Biology Discover Biology Lab	1	ARTZ CRWR	131	Ceramics for Non-majors	3 3
BIOB	160	Principles of Living Systems	3	FILM	240 160	Intro Creative Writing Workshop Introduction to World Cinema	3
BIOB	161	Principles of Living Systems Lab	<i>3</i> 1	LIT	270	Film & Literature	3
		- Physical Sciences	3-4 credits	MART	260	Computer Presentation and Animatic	
ASTR	110	Introduction to Astronomy	3	MAKI	200	Computer i resentation and Ammatic	
ASTR		introduction to ristronomy		MIISI	101	Enjoyment of Mucic	
	111	Introduction to Astronomy Lab		MUSI	101	Enjoyment of Music	3
CHMY	111 121	Introduction to Astronomy Lab	1	MUSI	114	Band: MSUB Symphonic	3 1
CHMY CHMY	121	Introduction to General Chemistry	1 3	MUSI MUSI	114 131	Band: MSUB Symphonic Jazz Ensemble I: MSUB	3 1 1
CHMY	121 122	Introduction to General Chemistry Introduction to General Chemistry I	1 3 Lab 1	MUSI MUSI MUSI	114 131 147	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 1 1 1
CHMY CHMY	121 122 <b>141</b>	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I	1 3 Lab 1 3	MUSI MUSI MUSI THTR	114 131 147 101	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre	3 1 1 1 3
CHMY CHMY CHMY	121 122 141 142	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I	1 3 1 3 1	MUSI MUSI MUSI THTR THTR	114 131 147 101 120	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I	3 1 1 1 3 3 3
CHMY CHMY CHMY GEO	121 122 <b>141</b> <b>142</b> 101	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology	1 3 1 3 1 3	MUSI MUSI MUSI THTR THTR Subcate	114 131 147 101 120 gory B	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities	3 1 1 3 3 3 3 credits
CHMY CHMY CHMY GEO GEO	121 122 141 142	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geology L	1 3 1 3 1 3 1 3 aboratory 1	MUSI MUSI MUSI THTR THTR Subcate ARTH	114 131 147 101 120 <b>gory B</b> 150	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History	3 1 1 3 3 3 3 3 3 credits
CHMY CHMY CHMY GEO GEO GPHY	121 122 <b>141</b> <b>142</b> 101 102 112	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography	1 3 1 3 1 3 1 3 aboratory 1 Lab 1	MUSI MUSI MUSI THTR THTR Subcate ARTH HONR	114 131 147 101 120 gory B 150 111	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding	3 1 1 3 3 3 3 credits
CHMY CHMY CHMY GEO GEO GPHY GPHY	121 122 141 142 101 102 112 111	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography	1 3 1 3 1 3 aboratory 1 Lab 1 3	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT	114 131 147 101 120 <b>gory B</b> 150 111 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature	3 1 1 3 3 3 3 credits 3 3
CHMY CHMY CHMY GEO GEO GPHY	121 122 <b>141</b> <b>142</b> 101 102 112	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World	1 3 1 3 1 3 1 3 aboratory 1 Lab 1	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT	114 131 147 101 120 <b>gory B</b> 150 111 110 240	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature	3 1 1 3 3 3 3 credits 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX	121 122 <b>141</b> <b>142</b> 101 102 112 111 103	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography	1 3 1 3 1 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 credits 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX	121 122 <b>141</b> <b>142</b> 101 102 112 111 103 104	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 3 1	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT	114 131 147 101 120 <b>gory B</b> 150 111 110 240	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature	3 1 1 3 3 3 3 3 credits 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX	121 122 141 142 101 102 112 111 103 104 205	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX	121 122 141 142 101 102 112 111 103 104 205 206	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World College Physics I	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX PHSX PHSX	121 122 141 142 101 102 112 111 103 104 205 206 105 106	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1 3	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 credits 3 3 3 3 3 3
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CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX Subcate SCIN 10	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences	1 3 1 3 1 1 3 3 1 1 3 1 7 credits	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX Subcate SCIN 10	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry Laboratory I Introduction to Physical Geology Introduction to Physical Geography Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences 3 & 104 Integrated Sciences	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1 7 credits 3, ½ 3, ½ 6 credits	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX Subcate SCIN 10  CATEGO  Students	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry I Introduction to Physical Geology Introduction to Physical Geology L Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences 38 & 104 Integrated Sciences	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1 7 credits 3, ½ 3, ½ 6 credits	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX Subcate SCIN 10  CATEGO  Students	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry I Introduction to Physical Geology Introduction to Physical Geology L Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences 38 & 104 Integrated Sciences SOCIAL SCIENCES AND HISTORY Tuired to take one course from each su	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1 7 credits 3, ½ 3, ½ 6 credits bcategory 3 credits	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX Subcate SCIN 10  CATEGO  Students Subcate	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10 DRY III:	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry I Introduction to Physical Geology Introduction to Physical Geology L Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences 3 & 104 Integrated Sciences  SOCIAL SCIENCES AND HISTORY wired to take one course from each su – Social Sciences	1 3 1 3 1 3 aboratory 1 Lab 1 3 3 1 3 1 3 1 7 credits 3, ½ 3, ½ 6 credits bcategory 3 credits	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3
CHMY CHMY CHMY GEO GEO GPHY GPHY PHSX PHSX PHSX PHSX PHSX Subcate SCIN 10  CATEGO Students Subcate ANTY	121 122 141 142 101 102 112 111 103 104 205 206 105 106 gories A 1, 102, 10 DRY III: are req gory A	Introduction to General Chemistry Introduction to General Chemistry I College Chemistry I College Chemistry I Introduction to Physical Geology Introduction to Physical Geology L Introduction to Physical Geography Introduction to Physical Geography Our Physical World Our Physical World Our Physical World Lab College Physics I College Physics I Lab Fundamentals of Phys Sci Fundamentals of Phys Sci Fundamentals of Phys Sci Lab A and B – Integrated Sciences 3 & 104 Integrated Sciences  SOCIAL SCIENCES AND HISTORY wired to take one course from each su – Social Sciences Physical Anthropology & Archeolo	1 3 Lab 1 3 I 3 aboratory 1 Lab 1 3 3 1 3 1 7 credits 3, ½, 3, ½ 6 credits bcategory 3 credits gy 3 3	MUSI MUSI MUSI THTR THTR Subcate; ARTH HONR LIT LIT PHL PHL	114 131 147 101 120 <b>gory B</b> 150 111 110 240 110	Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Introduction to Theatre Introduction to Acting I - Humanities Introduction to Art History Perspectives and Understanding Introduction to Literature The Bible as Literature Introduction to Ethics	3 1 1 3 3 3 3 3 3 3 3 3 3 3 3 3

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3 credits

**ECNS** 

**ECNS** 

EDU

HTH

PSCI

**PSCI** 

**PSYX** 

PSYX

SOCI

SOCI

HSTA

**GPHY** 

201

202

105

110

210

220

100

231

101

201

Subcategory B - History

101

Principles of Microeconomics

Principles of Macroeconomics

Geography of World Regions

Personal Health and Wellness

Introduction to American Government

Introduction to Comparative Government

Education and Democracy

Introduction to Psychology

Introduction to Sociology

**Human Relations** 

Social Problems

American History I

		Course	Credits Grad		Equivalen	t
Riology D	Requiremen	A minimum grade of C or better is required to	d in all major co	ursework		
*BIOB	160	Principles of Living Systems	3			
* BIOB	161	Principles of Living Systems Lab	1			
BIOB	170	Principles of Biological Diversity	3			
BIOB	171	Principles of Biological Diversity Lab	1			
BIOB	260	Cellular and Molecular Biology	3			
BIOB	261	Cellular and Molecular Biology Lab	1			
BIOM	360	General Microbiology	3			
BIOM	361	General Microbiology Lab	1			
BIOE	370	General Ecology	3			
BIOE	371	General Ecology Lab	1			
BIOB	375	General Genetics	3			
BIOB	376	General Genetics Lab	1			
ВСН	380	Biochemistry	3			
ВСН	381	Biochemistry Lab	1			
BIOB	425	Advanced Cell and Molecular Biology	3			
BIOB	426	Advanced Cell and Molecular Biology Lab	1			
BIOB	490	Undergraduate Research	2			
BIOB	499	Senior Thesis/Capstone	1			
Upper Di	vision Biolo	ogy Electives (11 credits – selected in consultat	ion with adviso	or)		
Upper Di	vision Biolo		ion with adviso	or)		
Upper Di	vision Biolo		ion with adviso	or)		
Upper Di	vision Biolo		ion with adviso	or)		
		ogy Electives (11 credits – selected in consultat		or)		
		ogy Electives (11 credits – selected in consultat	ion with adviso	or)		
*BIOB 10		not qualify in this category.  Biology Total		or)		
*BIOB 10	01/102 does	not qualify in this category.  Biology Total		or)		
*BIOB 10 Chemistr *CHMY	01/102 does . ry Requiren	not qualify in this category.  Biology Total  College Chemistry I  College Chemistry Laboratory I	46	or)		
*BIOB 10 Chemistr *CHMY *CHMY	01/102 does y <b>Requiren</b> 141	not qualify in this category.  Biology Total  College Chemistry I	46	or)		
*BIOB 10 Chemistr *CHMY *CHMY CHMY	01/102 does  ry Requiren 141 142	not qualify in this category.  Biology Total  College Chemistry I  College Chemistry Laboratory I	<b>46</b>	or)		
*BIOB 10	71/102 does 12/102	not qualify in this category.  Biology Total  College Chemistry I  College Chemistry II  College Chemistry II	<b>46</b> 3 1 3	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY	91/102 does 141 142 143 144	not qualify in this category.  Biology Total  ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry II  College Chemistry Laboratory II  Organic Chemistry I  Organic Chemistry Laboratory I	<b>46</b> 3 1 3 1	or)		
*BIOB 10 Chemistr *CHMY *CHMY CHMY CHMY	71/102 does 141 142 143 144 321	not qualify in this category.  Biology Total  Ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I	<b>46</b> 3 1 3 1 3 1 3	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY	71/102 does 141 142 143 144 321 322	not qualify in this category.  Biology Total  Ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II	46  3 1 3 1 3 1 3 1 1 3 1	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY	Py Requiren 141 142 143 144 321 322 323	not qualify in this category.  Biology Total  Ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I	3 1 3 1 3 1 3 3 3 1 3 3 3 1 3 3 3 3 1 3	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY	Py Requiren 141 142 143 144 321 322 323 324	not qualify in this category.  Biology Total  Ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II  Chemistry Total	46  3 1 3 1 3 1 3 1 1 3 1	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY	Py Requiren 141 142 143 144 321 322 323 324	not qualify in this category.  Biology Total  Ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II  Organic Chemistry Laboratory II	46  3 1 3 1 3 1 3 1 1 3 1	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY CHMY *CHMY *CHMY *CHMY	Py Requirem 141 142 143 144 321 322 323 324 Requiremen	not qualify in this category.  Biology Total  ments  College Chemistry I  College Chemistry Laboratory I  College Chemistry Laboratory II  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Organic Chemistry Laboratory I  Chemistry Total  t (choose one Physics sequence)	46  3 1 3 1 3 1 1 3 1 1 16	or)		
*BIOB 10  Chemistr *CHMY *CHMY CHMY CHMY CHMY CHMY CHMY CHMY	201/102 does 141 142 143 144 321 322 323 324 Requiremen 205/206	not qualify in this category. Biology Total  ments College Chemistry I College Chemistry Laboratory I College Chemistry Laboratory II Organic Chemistry Laboratory I Organic Chemistry Laboratory I Organic Chemistry Laboratory I Corganic Chemistry Laboratory I Corganic Chemistry Laboratory I Corganic Chemistry Laboratory I Corganic Chemistry Laboratory II Chemistry Total  t (choose one Physics sequence) College Physics I/Lab	46  3 1 3 1 3 1 1 1 16	or)		

Mathematics or Statistics Requirement (choose two of the following)

*M	171	Calculus I	4		
M	172	Calculus II	4		
PSYX	223	Research Design and Analysis I	3		
	224	Research Design and Analysis I Lab	1		
*STAT	216	Introduction to Statistics	4		

**Math or Statistics Total** 

8

<sup>\*</sup>May satisfy General Education requirements.

Restricte	ed Elective	es selected in consultation with faculty advisor (6	credits)				
Unrestricted Electives							
CHMY	311	Analytical Chemistry – Quantitative Analysis	3				
СНМҮ	312	Analytical Chemistry Laboratory – Quantitative Analysis	1				
Electives	i		<u> </u>				

BACHELOR OF SCIENCE DEGREE IN BIOLOGY								
Categories	Credits	Earned	Remaining					
General Education Requirements	31							
Biology Requirements	**42							
Chemistry Requirements	***13							
Physics Requirements	8							
Math or Statistics Requirement	***5							
Restricted Electives	6							
Electives (variable)	15-V							
Total	120							

<sup>\*\*4</sup> credits that also satisfy General Education requirements are not included in the total number of credits.

The total number of elective credits required for the degree will be determined by the number of courses a student elects to take which fulfill both the General Education requirements and the major requirements. Electives should be chosen in consultation with an academic advisor.

It is the student's responsibility to know and meet the requirements for graduation. A minimum of 36 credits must be upper division classes (300 and above).

<sup>\*\*\*3</sup> credits that also satisfy General Education requirements are not included in the total number of credits.