

Montana State University Billings **Advising & Career Services** Phone: 406-657-2240 Fax: 406-657-2302 advising@msubillings.edu www.msubillings.edu/advise/

## **ADVISING WORKSHEET BACHELOR OF ARTS DEGREE** MAJOR IN BIOLOGY

**TRANSFER INSTITUTION(S):** 

General Bulletin 2020-2021

Name\_\_\_\_\_ Student ID #

#### **GENERAL EDUCATION REQUIREMENTS – SEE ATTACHED PAGE FOR SPECIFIC COURSES**

<b>General Education Category</b>	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits) A. Mathematics (3 credits) <i>M 171 or STAT 216 – Major requirement</i> B. English (3 credits)					
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	RY I:	GLOBAL ACADEMIC SKILLS 9 cre	dits
		equired to take one course from each subcatego	
		A - Mathematics 3 cre	
M	105	Contemporary Mathematics	3
M	114	Extended Technical Mathematics	3
M	121	College Algebra	3
М	122	College Trigonometry	3
М	130	Mathematics for Elementary Teachers I	3 3 3
М	140	College Math for Healthcare	3
М	143	Finite Mathematics	4
M	161	Survey of Calculus	3
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
Subcateg	gory H	3 - English 3 cre	dits
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3
WRIT	201	College Writing II	3
WRIT	220	Business & Professional Writing	3
WRIT	221	Intermediate Technical Writing	3
		C- Communication & Information Literacy 3 ci	
BMIS 1		Cyber Security and Electronic Communication	
COMX 1		Introduction to Public Speaking	3
COMX 1		Introduction to Interpersonal Communication	3
LSCI 12	5	Research in the Information Age	3
		NATURAL SCIENCES 6 cr. lecture & 1 cr.	
		quired to take one course from each subcategor	y and
at least o	ne cor	responding lab or Integrated Sciences	
		A – Life Sciences 3-4 cre	
BIOB	101	85	3
BIOB	102	Discover Biology Lab	1
BIOB		Fundamentals of Biology for Allied Health	3
	121		
BIOB	121	Fund of Biology: Evolution, Ecology, and	
BIOB	122	Fund of Biology: Evolution, Ecology, and Biodiversity	3
BIOB BIOB	122 123	Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition	3
BIOB BIOB <b>BIOB</b>	122 123 <i>160</i>	Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i>	3 3
BIOB BIOB	122 123	Fund of Biology: Evolution, Ecology, and Biodiversity Fund of Biology: The Nature of Nutrition	3
BIOB BIOB BIOB BIOB	122 123 160 161	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> </ul>	3 3 1
BIOB BIOB BIOB BIOB Subcateg	122 123 <i>160</i> <i>161</i> gory F	Fund of Biology: Evolution, Ecology, and Biodiversity         Fund of Biology: The Nature of Nutrition         Principles of Living Systems         Principles of Living Systems Lab         3 – Physical Sciences       3-4 cre	3 3 1 dits
BIOB BIOB BIOB BIOB Subcateg ASTR	122 123 <i>160</i> <i>161</i> gory H 110	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>Introduction to Astronomy</li> </ul>	3 3 1 dits 3
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR	122 123 <i>160</i> <i>161</i> gory H 110 111	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>3-4 cree</li> <li>Introduction to Astronomy</li> <li>Introduction to Astronomy Lab</li> </ul>	3 3 1 dits 3 1
BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY	122 123 160 161 gory F 110 111 121	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>3-4 cree</li> <li>Introduction to Astronomy</li> <li>Introduction to Astronomy Lab</li> <li>Introduction to General Chemistry</li> </ul>	3 3 1 dits 3 1 3
BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY	122 123 160 161 gory H 110 111 121 122	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>3-4 cree</li> <li>Introduction to Astronomy</li> <li>Introduction to Astronomy Lab</li> <li>Introduction to General Chemistry</li> <li>Introduction to General Chemistry Lab</li> </ul>	3 3 1 dits 3 1 3 1
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY	122 123 160 161 gory F 110 111 121 122 141	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>3-4 cree</li> <li>Introduction to Astronomy</li> <li>Introduction to Astronomy Lab</li> <li>Introduction to General Chemistry</li> <li>Introduction to General Chemistry Lab</li> <li><i>College Chemistry I</i></li> </ul>	3 3 1 dits 3 1 3 1 3
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY CHMY	122 123 160 161 gory F 110 111 121 122 141 142	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition</li> <li><i>Principles of Living Systems</i></li> <li><i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences</li> <li>B – Physical Sciences</li> <li>B – Physical Sciences</li> <li>B – Physical Sciences</li> <li>College Chemistry Laboratory I</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1
BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO	122 123 160 161 gory H 110 111 121 122 141 142 101	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY GEO GEO	122 123 160 161 gory H 110 111 122 141 142 101 102	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY	122 123 160 161 gory F 110 111 121 122 141 142 101 102 262	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences Technology &amp; Application</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY	122 123 160 161 gory F 110 111 121 122 141 142 101 102 262 263	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX	122 123 160 161 100 111 121 122 141 102 262 263 103	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX	122 123 160 161 110 111 121 122 141 142 101 102 262 263 103 104	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World</li> </ul>	3 3 1 dits 3 1 1 1 1 1 1 1 1 1 1 1 1 1
BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX PHSX	122 123 160 161 100 111 121 122 141 142 101 102 262 263 103 104 205	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World College Physics I</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GPHY PHSX PHSX	122 123 160 161 110 111 121 122 141 142 101 102 262 263 103 104	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>B – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World</li> </ul>	3 3 1 dits 3 1 1 1 1 1 1 1 1 1 1 1 1 1
BIOB BIOB BIOB BIOB Subcateg ASTR ASTR CHMY CHMY CHMY CHMY GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX	122 123 160 161 110 111 122 141 142 101 102 262 263 103 104 205 206	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>8 – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World College Physics I College Physics I Lab</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
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BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX Integrate	122 123 160 161 100 111 122 141 142 101 102 262 263 103 104 205 206 d Scie	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>8 – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World College Physics I College Physics I Lab</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3
BIOB BIOB BIOB BIOB Subcates ASTR ASTR CHMY CHMY CHMY CHMY CHMY GEO GEO GEO GPHY GEO GPHY PHSX PHSX PHSX PHSX Integrate	122 123 160 161 100 111 122 141 142 101 102 262 263 103 104 205 206 d Scie	<ul> <li>Fund of Biology: Evolution, Ecology, and Biodiversity</li> <li>Fund of Biology: The Nature of Nutrition <i>Principles of Living Systems</i> <i>Principles of Living Systems Lab</i></li> <li>8 – Physical Sciences 3-4 cree Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry Introduction to General Chemistry Lab <i>College Chemistry I</i> <i>College Chemistry Laboratory I</i> Introduction to Physical Geology Introduction to Physical Geology Laborator Spatial Sciences &amp; Technology &amp; Application Spatial Sciences &amp; Technology Lab Our Physical World Our Physical World Lab College Physics I College Physics I Lab</li> </ul>	3 3 1 dits 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3

CATECO	ov III.	SOCIAL SCIENCES AND HISTOPY 4 CDED	ITC
		SOCIAL SCIENCES AND HISTORY 6 CRED uired to take one course from each subcategory	
		- Social Sciences 3 credit	
ANTY	217	Physical Anthropology & Archeology	3
BGEN	105	Introduction to Business	3
COMX	105	Communicating in a Dynamic Workplace	3
ECNS	201	Principles of Microeconomics	3 3 3 3 3 3 3 3 3 3 3 3
ECNS	201	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to Comparative Government	3
PSYX	100	Introduction to Psychology	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3
Subcated	tory R	- History 3 cred	lite
HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	102	Western Civilization I	3
HSTR	101	Western Civilization II	3
HSTR	102	Honors Western Civilization I	3
HSTR	103	Honors Western Civilization II	3 3 3 3 3
PSCI	230	Introduction to International Relations	3
		CULTURAL DIVERSITY 3 cred	
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
COMX	212	Intro to Intercultural Communication	3
GPHY	121	Human Geography	3
HTH	270	Global Health Issues	3
LIT	230	World Literature Survey	3
MUSI	207	World Music	3
NASX	105	Introduction to Native American Studies	3
NASX	205	Native Americans in Contemporary Society	3
	0 - 1		•
	271	Indian Philosophies and Religions	3
PHL	272	Chinese Philosophies and Religions	3
PHL REHA	272 201	Chinese Philosophies and Religions Introduction to Diversity in Counseling	3 3 3
PHL REHA RLST	272 201 170	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest	3 3 3 3
PHL REHA RLST SPNS	272 201 170 150	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
PHL REHA RLST SPNS	272 201 170	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest	3 3 3 3 3 3
PHL REHA RLST SPNS WGSS CATEGO	272 201 170 150 274 RY V:	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred	3 lits
PHL REHA RLST SPNS WGSS CATEGO Students	272 201 170 150 274 <b>RY V:</b> are req	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory	3 lits
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg	272 201 170 150 274 RY V: are req gory A	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred	3 lits lits
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160 270	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160 270 260	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation	3 lits lits 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160 270 260 101	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music	3 lits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160 270 260 101 114	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic	3 lits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1
PHL REHA RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI	272 201 170 150 274 <b>RY V:</b> are req <b>gory A</b> 101 105 106 108 131 240 160 270 260 101 114 131	Chinese Philosophies and Religions Introduction to Diversity in Counseling The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 cred uired to take one course from each subcategory – Fine Arts 3 cred Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Computer Presentation and Animation Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB	3 lits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 1 1
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		Course	Credits	Grade	Semester	Equivalent		
A minimum grade of C- or better is required in all major coursework								
<b>Biology R</b>	equirem	ents						
*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					
BIOB	375	General Genetics	3					
BIOB	376	General Genetics Lab	1					
BIOB	490	Undergraduate Research	2	1				
BIOB	499	Senior Thesis/Capstone	1					

#### Upper Division Science Electives (16 credits - selected in consultation with advisor from the following rubrics: BCH, BIOB, BIOE, BIOH, BIOM, BIOO, CHMY, ERTH, GEO, GPHY, PHSX)

**Biology Total** 

#### **Chemistry Requirements**

		Chemistry Total	16	I	
BCH	381	Biochemistry Lab	1		
BCH	380	Biochemistry	3		
CHMY	212	Elements of Organic Chemistry Lab	1		
CHMY	211	Elements of Organic Chemistry	3		
CHMY	144	College Chemistry Laboratory II	1		
CHMY	143	College Chemistry II	3		
*CHMY	142	College Chemistry Laboratory I	1		
*CHMY	141	College Chemistry I	3		

#### Mathematics or Statistics Requirement (choose one of the following)

*М	171	Calculus I	4		
*STAT	216	Introduction to Statistics	4		
		Mathematics/Statistics Total	4		·

**Mathematics/Statistics Total** 

\*May satisfy General Education requirements.

#### Foreign Language Requirement (2 semesters/1 full year of the same language)

	Language R	equirement	8		

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Course

Credits Grade Semester

r Equivalent

Minor						
OR						
Allied Health Concentration consisting of the following courses:						
BIOM	240	Microbiology for Health Sciences	3			
BIOM	251	Microbiology for Health Sciences Laboratory	1			
BIOH	301	Human Anatomy and Physiology I	3			
BIOH	302	Human Anatomy and Physiology I Laboratory I	1			
BIOH	311	Human Anatomy and Physiology II	3			
BIOH	312	Human Anatomy and Physiology II Laboratory II	1			
NUTR	221	Basic Human Nutrition	3			
PSYX	230	Developmental Psychology	3			
PSYX	340	Abnormal Psychology	3			

## Allied Health Concentration Total 21

# Electives

academic advisor.

#### **BACHELOR OF ARTS DEGREE IN BIOLOGY**

Categories	Credits	Earned	Remaining
General Education	31		
Biology Requirements	**31		
Chemistry Requirements	***13		
Math or Statistics Requirement	***1		
Foreign Language Requirement	8		
Minor	V-21		
Electives (variable)	V		
Total	120		

\*\* 4 credits that also satisfy General Education requirements are not included in the total number of credits. \*\*\*3 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 the General Education, major, and minor requirements. Electives should be chosen in consultation with an

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) NOTES: