

# ADVISING WORKSHEET

**TRANSFER INSTITUTION(S):** 

BACHELOR OF ARTS DEGREE MAJOR IN BIOLOGY GENERAL BULLETIN 2022-2023

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

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) M 171 or STAT 216 – Major requirement					
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					
<b>Category III: Social Sciences and History</b> (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**

<u>Curran</u>	DVT	Gronit Lainnig Groves	0 114
		GLOBAL ACADEMIC SKILLS	9 credits
		uired to take one course from each sub	•••
		- Mathematics	3 credits
М	105	Contemporary Mathematics	3
М	114	Extended Technical Mathematics	3
М	121	College Algebra	3
М	122	College Trigonometry	3 s I 3 3
М	130	Mathematics for Elementary Teacher	sI 3
М	140	College Math for Healthcare	
Μ	143	Finite Mathematics	4
М	161	Survey of Calculus	3
М	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
Subasta	nowy D	English	2 anadita
	•	- English	3 credits
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3
Subcates	gory C	- Communication & Information Litera	cy 3 credits
BMIS	150	Cyber Security and Electronic Commu	
COMX	111	Introduction to Public Speaking	3
COMX	115	Introduction to Interpersonal Commun	ication 3
COMX	210	Communication in Small Groups	3
HONR	205	Honors Inquiry and Research	3
LSCI	125	Research in the Information Age	3
CATECO	DV II. 1	NATURAL SCIENCES 6 cr. lecture	Pr 1 or Job
		NATURAL SCIENCES         6 cr. lecture           uired to take one course from each subc	
		esponding lab <u>or</u> Integrated Sciences	ategory and
			<b>3-4 credits</b>
BIOB	101	Discover Biology	3
BIOB	101	Discover Biology Discover Biology Lab	1
		Endemontale of Dislama for Alliad I	
BIOB	121	Fundamentals of Biology for Allied H	Health 3
BIOB	123	Fund of Biology: The Nature of Nutri	
BIOB	160	Principles of Living Systems	3
BIOB	161	Principles of Living Systems Lab	1
SCIN	101	Integrated Science I	3
SCIN	102	Integrated Science Lab	1
	•		8-4 credits
ASTR	110	Introduction to Astronomy	3
ASTR	111	Introduction to Astronomy Lab	1
CHMY	121	Introduction to General Chemistry	3
CHMY	122	Introduction to General Chemistry La	
CHMY	141	College Chemistry I	3
CHMY	142	College Chemistry Laboratory I	1
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Lab	oratory 1
GPHY	262	Spatial Sciences Technology & Appl	
GPHY	263	Spatial Sciences & Technology Lab	1
PHSX	103	Our Physical World	3
PHSX	103	Our Physical World Lab	1
			3
PHSX	205	College Physics I	
PHSX	206	College Physics I Lab	1
SCIN	103	Integrated Science I	3
	104	Integrated Science Lab	1
SCIN	104	Integrated Science Lab	1

CATEGOR	RY III: S	SOCIAL SCIENCES AND HISTORY 6 CF	REDITS
Students	are requ	uired to take one course from each subcateg	
Subcateg	gory A -	– Social Sciences 3 cr	edits
BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workplace	
ECNS	201	Principles of Microeconomics	3
ECNS	202	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	
PSYX	100	Introduction to Psychology	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3
Subcateg	gory B ·		redits
HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	159	World History to 1500 CEI	3
HSTR	160	Modern World History	3
PSCI	230	Introduction to International Relations	3
CATEGO	RY IV:	CULTURAL DIVERSITY 3	credits
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
COMX	212	Intro to Intercultural Communication	3
GPHY	121	Human Geography	3
НТН	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 Socie	
	205	1 0	
REHA	201	Introduction to Diversity in Counseling	3
REHA RI ST	201 170	Introduction to Diversity in Counseling The Religious Quest	3
RLST	170	The Religious Quest	3
RLST SPNS	170 150	The Religious Quest The Hispanic Tradition	3 3
RLST	170	The Religious Quest	3
RLST SPNS WGSS	170 150 274	The Religious Quest The Hispanic Tradition Women, Culture, and Society	3 3
RLST SPNS WGSS	170 150 274 RY V:	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c	3 3 3 credits
RLST SPNS WGSS CATEGO Students	170 150 274 <b>RY V:</b> .	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c uired to take one course from each subcateg	3 3 3 credits
RLST SPNS WGSS CATEGO Students	170 150 274 <b>RY V:</b> .	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c uired to take one course from each subcateg	3 3 3 credits
RLST SPNS WGSS CATEGO Students Subcateg	170 150 274 RY V: are requ gory A -	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 c         nired to take one course from each subcateg         - Fine Arts       3 c         Art Fundamentals	3 3 3 credits cory credits
RLST SPNS WGSS CATEGO Students Subcateg ARTZ	170 150 274 <b>RY V:</b> are requ gory A - 101	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c aired to take one course from each subcateg – Fine Arts 3 c Art Fundamentals Visual Language-Drawing	3 3 3 credits cory credits 3 3
RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ	170 150 274 <b>RY V:</b> are requ <b>gory A</b> 101 105	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c hired to take one course from each subcateg – Fine Arts 3 c Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations	3 3 3 credits cory credits 3
RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ	170 150 274 <b>RY V:</b> are requ <b>gory A</b> - 101 105 106 108	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c aired to take one course from each subcateg – Fine Arts 3 c Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations	3 3 3 credits gory credits 3 3 3 3 3
RLST SPNS WGSS CATEGO Students Subcateg ARTZ ARTZ ARTZ	170 150 274 <b>RY V:</b> 2 are requ gory A - 101 105 106	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c irred to take one course from each subcateg – Fine Arts 3 c Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors	3 3 3 credits ory credits 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ ARTZ CRWR	170 150 274 <b>RY V:</b> are requ gory A 101 105 106 108 131 240	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c irred to take one course from each subcateg – Fine Arts 3 c Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop	3 3 3 credits ory credits 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM	170 150 274 <b>RY V:</b> are requ gory A 101 105 106 108 131 240 160	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c irred to take one course from each subcateg – Fine Arts 3 c 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 3 3 credits (ory credits 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT	170 150 274 <b>RY V:</b> 2 are requ gory A 101 105 106 108 131 240 160 270	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES irred to take one course from each subcatege – Fine Arts 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 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI	170 150 274 <b>RY V:</b> 2 are requ gory A - 101 105 106 108 131 240 160 270 101	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c irred to take one course from each subcateg – Fine Arts 3 c 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 Enjoyment of Music	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for tired to take one course from each subcatege – Fine Arts Art Fundamentals Visual Language-Drawing 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 Enjoyment of Music Band: MSUB Symphonic	3 3 3 credits 3 3 3 3 3 3 3 3 3 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for arred to take one course from each subcateg – Fine Arts Art Fundamentals Visual Language-Drawing Visual Language-2-D Foundations Visual Language-3-D Foundations Visual Language-3-D Foundations Ceramics for Non-majors Intro Creative Writing Workshop Introduction to World Cinema Film & Literature Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB	3 3 3 credits 3 3 3 3 3 3 3 3 3 1 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131 147	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for aired to take one course from each subcateg – Fine Arts 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 3 3 credits 3 3 3 3 3 3 3 3 3 1 1 1 1
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI PHOT	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131 147 154	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for aired to take one course from each subcateg – Fine Arts 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131 147	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for aired to take one course from each subcateg – Fine Arts 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus	3 3 3 credits 3 3 3 3 3 3 3 3 3 1 1 1 1
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RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH	170 150 274 <b>RY V:</b> are requ gory A 101 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>gory B</b> 150	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c the dired to take one course from each subcateg – Fine Arts 3 c 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre - Humanities 3 c Introduction to Art History	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI Subcateg ARTH HONR	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>gory B</b> - 150 111	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 c dired to take one course from each subcateg – Fine Arts 3 c 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre - Humanities 3 c Introduction to Art History Perspectives and Understanding	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI MUSI	170 150 274 <b>RY V:</b> are requ gory A - 101 105 106 108 131 240 160 270 101 114 131 147 154 101 <b>gory B</b> - 150 111 110	The Religious Quest         The Hispanic Tradition         Women, Culture, and Society         ARTS & HUMANITIES       6 control of the control	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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RLST SPNS WGSS Students Subcateg ARTZ ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR Subcateg ARTH HONR LIT LIT PHL	170 150 274 <b>RY V:</b> . are requ gory A - 101 105 106 108 131 240 160 270 101 14 131 147 154 101 150 111 110 213 110	The Religious Quest The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES for dired to take one course from each subcateg – Fine Arts 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 Enjoyment of Music Band: MSUB Symphonic Jazz Ensemble I: MSUB Choral Ensemble I: MSUB Moral Ens	3 3 3 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

		Course	Credits	Grade	Semester	Equivalent
		A minimum grade of C- or better is requ	iired in all maj	ior course	work	
Biology Re	quiremer	nts		· · · · ·		
*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				
Or			2			
BIOB	498	Internship/Cooperative Education				
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	35		

**Biology Total** 

#### **Chemistry Requirements**

380 381	Biochemistry Biochemistry Lab	3 1			
380	Biochemistry	3			
212	Elements of Organic Chemistry Lab	1			
211	Elements of Organic Chemistry	3			
144	College Chemistry Laboratory II	1			
143	College Chemistry II	3			
142	College Chemistry Laboratory I	1			
141	College Chemistry I	3			
1. 1. 1.	42 43 44	41       College Chemistry I         42       College Chemistry Laboratory I         43       College Chemistry II         44       College Chemistry Laboratory II	41       College Chemistry I       3         42       College Chemistry Laboratory I       1         43       College Chemistry II       3         44       College Chemistry Laboratory II       1	42     College Chemistry Laboratory I     1       43     College Chemistry II     3       44     College Chemistry Laboratory II     1	42     College Chemistry Laboratory I     1       43     College Chemistry II     3       44     College Chemistry Laboratory II     1

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

*M	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 Requirement	8		

Language Requirement

Course

Credits Grade Semester

Equivalent

Minor					
OR					
Allied H	ealth C	oncentration consisting of the following cours	ses:		
BIOM	250	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 Lab II	1		
NUTR	221	Basic Human Nutrition	3		
PSYX	230	Developmental Psychology	3		
PSYX	340	Abnormal Psychology	3		
		Allied Health Concentration Total	21	· · · ·	

#### **Allied Health Concentration Total**

## Flectives

#### **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 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) **NOTES:**