

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 SCIENCE DEGREE

TRANSFER INSTITUTION(S):

MAJOR IN BIOLOGY General Bulletin 2020-2021

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)					
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:

CATEGO	RY I:	GLOBAL ACADEMIC SKILLS 9 cred	lits
Students Subcated	are re	quired to take one course from each subcategor A - Mathematics 3 cred	
M	105	Contemporary Mathematics	3
M	1114	Extended Technical Mathematics	3
M	114		2
		College Algebra	3 3 3 3
M	122	College Trigonometry	3
M	130	Mathematics for Elementary Teachers I	3
M	140	College Math for Healthcare	
М	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
Subcates	orv F	3 - English 3 cred	lits
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	
WRIT	121	Introduction to Business Writing	3 3 3 3 3
WRIT	201		2
	201	6 6	2
WRIT		Business & Professional Writing	2
WRIT	221	Intermediate Technical Writing	3
Subcateg BMIS 1		C- Communication & Information Literacy 3 cre Cyber Security and Electronic Communication	edits 3
COMX 1			3
		Introduction to Public Speaking	
COMX 1		Introduction to Interpersonal Communication	3
LSCI 125	>	Research in the Information Age	3
CATEGO	RY II:	NATURAL SCIENCES 6 cr. lecture & 1 cr.	lab
Students	are re	quired to take one course from each subcategory	and
		responding lab or Integrated Sciences	
		A – Life Sciences 3-4 cred	lits
BIOB	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
BIOB	121		3
BIOB	122	Fund of Biology: Evolution, Ecology, and	
DIOD		Biodiversity	3
BIOB	123	Fund of Biology: The Nature of Nutrition	3
BIOB	160	Principles of Living Systems	3
BIOB	161	Principles of Living Systems Principles of Living Systems Lab	3 1
-			
		B – Physical Sciences 3-4 cred	
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 Lab	1
СНМҮ	141	College Chemistry I	3
СНМҮ	142	College Chemistry Laboratory I	1
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Laboratory	
GPHY	262	Spatial Sciences Technology & Applications	
GPHY	263	Spatial Sciences & Technology Lab	1
PHSX	103	Our Physical World	3
PHSX	104	Our Physical World Lab	1
PHSX	205	College Physics I	3
PHSX	206	College Physics I Lab	1
Integrate	d Scie	nces	
		103, 104 Integrated Sciences 3, 1, 3	8, 1

C 1 · ·		a ·) a ·	gory
			redits
ANTY	217	Physical Anthropology & Archeology	3
BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workplac	ce 3
ECNS	201	Principles of Microeconomics	ce 3 3
ECNS	202	Principles of Macroeconomics	3
		Education and Democracy	3 3 3 3 1 3 1 3 3
EDU	105	5	3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to Comparative Government	nt 3
PSYX	100	Introduction to Psychology	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3
Subcate	gory B	- History 3	credits
HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	101	Western Civilization I	3
		Western Civilization II	3
HSTR	102		3
HSTR	103	Honors Western Civilization I	3
HSTR	104	Honors Western Civilization II	3
PSCI	230	Introduction to International Relations	3
CATEGO	RY IV:	CULTURAL DIVERSITY 3	3 credits
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3
			5
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	s 3
NASX	205	Native Americans in Contemporary Soc	
PHL	203	Indian Philosophies and Religions	2
			2
PHL	272	Chinese Philosophies and Religions	3 3
REHA	201	Introduction to Diversity in Counseling	3
RLST	170	The Religious Quest	3
RLST SPNS	170 150	The Hispanic Tradition	3
			3 3 3
SPNS WGSS	150 274	The Hispanic Tradition Women, Culture, and Society	3
SPNS WGSS CATEGO	150 274	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6	3 3 credits
SPNS WGSS CATEGO Students	150 274 PRY V: are requ	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate	3 3 credits
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SPNS WGSS Students Subcate ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI	150 274 RY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 3 credits credits 3 3 3 3 3 3 3 3 3 3 3 1
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SPNS WGSS Students Subcate ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI	150 274 RY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 3 credits credits 3 3 3 3 3 3 3 3 3 3 3 1
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SPNS WGSS Students Subcate; ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI MUSI PHOT THTR THTR Subcate; ARTH	150 274 PRY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114 131 147 154 101 120 gory B 150	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 Choral Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Theatre Introduction to Acting I - Humanities 3 Introduction to Art History	3 3 credits 2gory credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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SPNS WGSS Students Subcate; ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MART MUSI MUSI MUSI MUSI MUSI PHOT THTR THTR Subcate; ARTH HONR LIT	150 274 PRY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114 131 147 154 101 120 gory B 150 111 110	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 Choral Ensemble I: MSUB Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding Introduction to Literature	3 3 credits 2gory credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
SPNS WGSS Students Subcate; ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI PHOT THTR THTR Subcate; ARTH HONR LIT LIT	150 274 PRY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114 131 147 154 101 120 gory B 150 111 110 213	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature	3 3 credits 2gory credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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SPNS WGSS CATEGO Students Subcate; ARTZ ARTZ ARTZ ARTZ ARTZ CRWR FILM LIT MUSI MUSI MUSI MUSI MUSI MUSI MUSI MUSI	150 274 PRY V: are requ gory A 101 105 106 108 131 240 160 270 260 101 114 131 147 154 100 120 gory B 150 111 110 213 110 111	The Hispanic Tradition Women, Culture, and Society ARTS & HUMANITIES 6 uired to take one course from each subcate – Fine Arts 3 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 Choral Ensemble: University Chorus Exploring Digital Photography Introduction to Acting I - Humanities 3 Introduction to Art History Perspectives and Understanding Introduction to Literature Montana Literature Introduction to Ethics Philosophies of Life	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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CATEGORY III: SOCIAL SCIENCES AND HISTORY

Students are required to take one course from each subcategory

6 CREDITS

		Course	Credits	Grade	Semester	Equivalent
A minimum grade of C- or better is required in all major coursework Biology Requirements						
Biology F *BIOB	Requirem 160	Principles of Living Systems	3			
* BIOB	161	Principles of Living Systems Lab	1			
BIOB	170	Principles of Biological Diversity	3			
BIOB	170	Principles of Biological Diversity Lab	1			
BIOB	260	Cellular and Molecular Biology	3			
BIOB	260					
	375	Cellular and Molecular Biology Lab General Genetics	1			
BIOB			-			
BIOB	376	General Genetics Lab	1			
BIOB	425	Advanced Cell and Molecular Biology	3			
BIOB	426	Advanced Cell and Molecular Biology Lab	1			
BIOB	487	Bioinformatics	3			
BIOB	490	Undergraduate Research	2			
BIOB	499	Senior Thesis/Capstone	1			
BIOE	370	General Ecology	3			
BIOE	371	General Ecology Lab	1			
BIOM	360	General Microbiology	3			
BIOM	361	General Microbiology Lab	1			
		ience Electives (10 credits – selected in consultat		dvisor fro	m the following	g rubrics: BCH,
BIOB, BI	OE, BIOF	I, BIOM, BIOO, CHMY, ERTH, GEO, GPHY, P	HSX)		I	
	v Require	Biology Total	44			

CHMY	143	College Chemistry II	3		
CHMY	144	College Chemistry Laboratory II	1		
CHMY	321	Organic Chemistry I	3		
CHMY	322	Organic Chemistry Laboratory I	1		
CHMY	323	Organic Chemistry II	3		
CHMY	324	Organic Chemistry Laboratory II	1		
BCH	380	Biochemistry	3		
BCH	381	Biochemistry Lab	1		
		Chemistry Total	20		

Chemistry Total Mathematics/Statistics Requirement (Choose two of the following)

*М	161	Survey of Calculus	3-4		
or					
*М	171	Calculus I			
М	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		
or					
PSYX	223/224	Research Design and Analysis I with Lab			
		Math/Statistics Total	7-8		

*May satisfy General Education requirements.

Physics Requirement (choose one Physics sequence)

		Physics Total	8		
	233	Physics II and Thermodynamics Lab	1		
PHSX	232/	Physics II and Thermodynamics	3		
	221	Physics I Lab	1		
PHSX	220/	Physics I	3		
or					
	208	College Physics II Lab	1		
PHSX	207/	College Physics II	3		
	206	College Physics I Lab	1		
*PHSX	205/	College Physics I	3		

Unrestricted Electives

	leu Electiv				
CHMY	311	Analytical Chemistry – Quantitative Analysis (Recommended but not required)	3		
СНМҮ	312	Analytical Chemistry Laboratory – Quantitative Analysis (Recommended but not required)	1		

BACHELOR OF SCIENCE DEGREE IN BIOLOGY							
Categories	Credits	Earned	Remaining				
General Education Requirements	31						
Biology Requirements	**40						
Chemistry Requirements	***17						
Math or Statistics Requirement	***4-5						
Physics Requirements	8						
Unrestricted 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 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).