

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

# **ADVISING WORKSHEET**

TRANSFER INSTITUTION(S):

BACHELOR OF SCIENCE DEGREE MAJOR IN BROADFIELD SCIENCE General Bulletin 2020-2021

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 is a 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 are 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-" required in all General Education courses.

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

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

**Reviewed:** 

# **GENERAL EDUCATION REQUIREMENTS**

CATEGO	DRY I:	GLOBAL ACADEMIC SKILLS 9 cre	dits
Students	are re	quired to take one course from each subcatego	ry
		A - Mathematics 3 cre	
Μ	105	Contemporary Mathematics	3
М	114	Extended Technical Mathematics	3
М	121	College Algebra	3
М	122	College Trigonometry	3 3 3 3 3
М	130	Mathematics for Elementary Teachers I	3
М	140	College Math for Healthcare	3
М	143	Finite Mathematics	4
М	161	Survey of Calculus	3
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
Subcate	gory I	3 - English 3 cre	dite
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	
WRIT	121	Introduction to Business Writing	2
WRIT	201		2
WRIT	201	Business & Professional Writing	2
WRIT	220	Intermediate Technical Writing	3 3 3 3 3
,, ICI I	221	Interniediate reeninear writing	5
		C- Communication & Information Literacy 3 cm	
BMIS 1		Cyber Security and Electronic Communication	
COMX		Introduction to Public Speaking	3
COMX 1		Introduction to Interpersonal Communication	3
LSCI 12	5	Research in the Information Age	3
CATEGO	RY II:	NATURAL SCIENCES 6 cr. lecture & 1 cr	. lab
		NATURAL SCIENCES 6 cr. lecture & 1 cr quired to take one course from each subcategor	
Students	are re	quired to take one course from each subcategor	
Students at least o	are re one cor	quired to take one course from each subcategor responding lab or Integrated Sciences	y an
Students at least o Subcate	are re one cor gory A	quired to take one course from each subcategor   responding lab or Integrated Sciences   A - Life Sciences 3-4 cres	y an dits
Students at least o <b>Subcate</b> BIOB	are re one cor gory A 101	quired to take one course from each subcategor   responding lab or Integrated Sciences   A - Life Sciences 3-4 cre   Discover Biology	y an dits 3
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Students at least of Subcate BIOB BIOB BIOB BIOB BIOB BIOB BIOB BIO	are re one con gory 4 101 102 121 122 123 160 161 gory I 110 111 122 141 142 101 102 262 263	quired to take one course from each subcategor   responding lab or Integrated Sciences   A - Life Sciences 3-4 cre   Discover Biology Discover Biology Lab   Fundamentals of Biology for Allied Health   Fund of Biology: Evolution, Ecology, and   Biodiversity   Fund of Biology: The Nature of Nutrition   Principles of Living Systems   Physical Sciences   Introduction to Astronomy   Introduction to General Chemistry   Introduction to General Chemistry Lab   College Chemistry I   College Chemistry Laboratory I   Introduction to Physical Geology   Introduction to Physical Geology Laborator   Spatial Sciences Technology & Application	y and dits 3 1 3 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1
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Students at least of Subcate BIOB BIOB BIOB BIOB BIOB BIOB BIOB BIO	are re one con gory A 101 102 121 122 123 160 161 gory I 110 111 122 141 142 101 102 262 263 103 104 205 206	quired to take one course from each subcategor   responding lab or Integrated Sciences   A - Life Sciences 3-4 cree   Discover Biology Discover Biology Lab   Fundamentals of Biology for Allied Health   Fund of Biology: Evolution, Ecology, and   Biodiversity   Fund of Biology: The Nature of Nutrition   Principles of Living Systems   Physical Sciences   3-4 cree   Introduction to Astronomy   Introduction to General Chemistry   Introduction to General Chemistry Lab   College Chemistry I   College Chemistry Laboratory I   Introduction to Physical Geology   Introduction to Physical Geology Laborator   Spatial Sciences & Technology & Applicatior   Spatial Sciences & Technology Lab   Our Physical World   Our Physical World   Our Physical World   Our Physical World   College Physics I   College Physics I Lab	y and dits 3 3 3 3 3 3 3 3 1 3 1 3 1 3 1 3 1 3 1
Students at least of Subcate BIOB BIOB BIOB BIOB BIOB BIOB BIOB BIO	are re one con gory A 101 102 121 122 123 160 161 gory H 110 111 122 141 142 101 102 262 263 103 104 205 206 ed Scie	quired to take one course from each subcategor   responding lab or Integrated Sciences   A - Life Sciences 3-4 cree   Discover Biology Discover Biology Lab   Fundamentals of Biology for Allied Health   Fund of Biology: Evolution, Ecology, and   Biodiversity   Fund of Biology: The Nature of Nutrition   Principles of Living Systems   Physical Sciences   3-4 cree   Introduction to Astronomy   Introduction to General Chemistry   Introduction to General Chemistry Lab   College Chemistry I   College Chemistry Laboratory I   Introduction to Physical Geology   Introduction to Physical Geology Laborator   Spatial Sciences & Technology & Applicatior   Spatial Sciences & Technology Lab   Our Physical World   Our Physical World   Our Physical World   Our Physical World   College Physics I   College Physics I Lab	y and dits 3 3 3 3 3 3 3 3 1 3 3 1 3 1 3 1 3 1 3

CATEGO	RY III: 3	SOCIAL SCIENCES AND HISTORY 6 CRE	DITS
		uired to take one course from each subcatego	
		– Social Sciences 3 cred	
ANTY	217	Physical Anthropology & Archeology	3
BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workplace	3
ECNS	201	Principles of Microeconomics	3 3 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	3
PSYX	100	Introduction to Psychology	3 3 3 3 3 3 3 3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3
Subcate	gory B	- History 3 cr	edits
HSTA	101	American History I	3
HSTA	101	American History II	
HSTR	102	Western Civilization I	ĩ
HSTR	101	Western Civilization II	à
HSTR	102	Honors Western Civilization I	ĩ
HSTR	103	Honors Western Civilization II	3 3 3 3 3
PSCI	230	Introduction to International Relations	3
i bei	230	introduction to international relations	5
		•••••••••••••••••••••••••••••••••••••••	redits
ANTY	220	Culture and Society	3
ARTH	160	Global Visual Culture	3 3 3 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 3 3 3 3 3 3 3 3 3 3 3 3
NASX	105	Introduction to Native American Studies	3
NASX	205	Native Americans in Contemporary Societ	y 3
PHL	271	Indian Philosophies and Religions	3
PHL	272	Chinese Philosophies and Religions	3
REHA	201	Introduction to Diversity in Counseling	3
RLST	170	The Religious Quest	3
SPNS	150	The Hispanic Tradition	3
WGSS	274	Women, Culture, and Society	3
CATEGO	DRY V:	ARTS & HUMANITIES 6 cm	edits
		uired to take one course from each subcatego	
Subcate	gory A		edits
ARTZ	101	Art Fundamentals	3
ARTZ	105	Visual Language-Drawing	3
ARTZ	106	Visual Language-2-D Foundations	3 3 3 3 3 3 3 3
ARTZ	108	Visual Language-3-D Foundations	3
ARTZ	131	Ceramics for Non-majors	3
CRWR	240	Intro Creative Writing Workshop	3
FILM	160	Introduction to World Cinema	3
LIT	270	Film & Literature	3
MART	260	Computer Presentation and Animation	
MUSI	101	Enjoyment of Music	3
MUSI	114	Band: MSUB Symphonic	1
MUSI	131	Jazz Ensemble I: MSUB	1
MUSI	147	Choral Ensemble: University Chorus	1
PHOT	154	Exploring Digital Photography	3
THTR	101	Introduction to Theatre	3
THTR	120	Introduction to Acting I	3
Subcate	gorv B -	- Humanities 3 cr	edits
ARTH	150	Introduction to Art History	3
		Perspectives and Understanding	3
HONR	111	reispectives and Understanding	.)

Subcategory B - Humanities 3 ci	redits
ARTH 150 Introduction to Art History	3
HONR 111 Perspectives and Understanding	3
LIT 110 Introduction to Literature	3
LIT 213 Montana Literature	3
PHL 110 Introduction to Ethics	3
PHL 111 Philosophies of Life	3
PHL 254 People and Politics	3

		Course	Credits	Grade	Semester	Equivalent	
A minimum grade of C- or better is required in all major coursework							
<b>Biology R</b>	lequiremo	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				
BIOE	370	General Ecology	3				
BIOE	371	General Ecology Lab	1				

**Biology Total** 

# **Chemistry Requirements**

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

20

## **Earth Science Requirements**

		Earth Science Total	18-19	•	•
ERTH	491	Special Topics	3		
ERTH	401	Geological Field Methods	4		
ERTH	303	Weather and Climate	4		
Choose of	ne course fr	om the following:			
GEO	309	Sedimentation and Stratigraphy	3		
GEO	212	Earth History and Evolution Laboratory	1		
GEO	211	Earth History and Evolution	3		
GEO	205	Mineralogy	4		
*GEO	102	Introduction to Physical Geology Laboratory	1		
*GEO	101	Introduction to Physical Geology	3		

#### Earth Science Total

## **Physics Requirements**

1 11 5105 11	equil ement						
*ASTR	110	Introduction to Astronomy	3				
* ASTR	111	Introduction to Astronomy Lab	1				
PHSX	220	Physics I	3				
PHSX	221	Physics I Lab	1				
PHSX	232	Physics II and Thermodynamics	3				
Continued on next page							
PHSX	233	Physics II and Thermodynamics Lab	1				

PHSX	343	Modern Physics	3		
PHSX	391	Special Topics	3		
PHSX	491	Special Topics	3		
		Physics Total	21		

# **Physics Total**

### Biological or Physical Science Electives (12 credits) - at least 3 credits must be upper division

Total	12	•	

#### **Mathematics Requirements**

*M	171	Calculus I	4		
М	172	Calculus II	4		

8

**Mathematics Total** 

\*May satisfy General Education requirements.

## Electives

#### **BACHELOR OF SCIENCE DEGREE MAJOR IN BROADFIELD SCIENCE**

Categories	Credits	Earned	Remaining
General Education	31		
Biology	**16		
Chemistry	***17		
Earth Science	18-19		
Physics	21		
Biological or Physical Science El	ect 12		
Mathematics	***5		
Electives	0-V		
Total	120		

\*\*4 credits that also satisfy General Education requirements are not included in the total credits for the major. \*\*\*3 credits that also satisfy General Education requirements are not included in the total credits for the major.

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: