



**ADVISING WORKSHEET**  
**BACHELOR OF SCIENCE DEGREE**  
**MAJOR IN BROADFIELD SCIENCE**  
**General Bulletin 2023-2024**

TRANSFER INSTITUTION(S):  
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Name \_\_\_\_\_

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

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

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

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## GENERAL EDUCATION REQUIREMENTS

### CATEGORY I: GLOBAL ACADEMIC SKILLS 9 credits

Students are required to take one course from each subcategory

#### Subcategory A - Mathematics 3 credits

M	105	Contemporary Mathematics	3
M	114	Extended Technical Mathematics	3
M	121	College Algebra	3
M	122	College Trigonometry	3
M	130	Mathematics for Elementary Teachers I	3
M	140	College Math for Healthcare	3
M	143	Finite Mathematics	4
M	161	Survey of Calculus	3
<b>M</b>	<b>171</b>	<b>Calculus I</b>	<b>4</b>
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4

#### Subcategory B - English 3 credits

WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3

#### Subcategory C- Communication & Information Literacy 3 credits

BMIS	150	Cyber Security and Electronic Communication	3
COMX	111	Introduction to Public Speaking	3
COMX	115	Introduction to Interpersonal Communication	3
COMX	210	Communication in Small Groups	3
LSCI	125	Research in the Information Age	3

### CATEGORY II: NATURAL SCIENCES 6 cr. lecture & 1 cr. lab

Students are required to take one course from each subcategory and at least one corresponding lab or Integrated Sciences

#### Subcategory A – Life Sciences 3-4 credits

BIOB	121	Fundamentals of Biology for Allied Health	3
BIOB	123	Fund of Biology: The Nature of Nutrition	3
<b>BIOB</b>	<b>160</b>	<b>Principles of Living Systems</b>	<b>3</b>
<b>BIOB</b>	<b>161</b>	<b>Principles of Living Systems Lab</b>	<b>1</b>
SCIN	101	Integrated Science I	3
SCIN	102	Integrated Science I Lab	1

#### Subcategory B – Physical Sciences 3-4 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 Lab	1
<b>CHMY</b>	<b>141</b>	<b>College Chemistry I</b>	<b>4</b>
<b>CHMY</b>	<b>142</b>	<b>College Chemistry Laboratory I</b>	<b>1</b>
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Laboratory	1
GPHY	262	Spatial Sciences Technology & Applications	3
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
SCIN	103	Integrated Science II	3

### CATEGORY III: SOCIAL SCIENCES AND HISTORY 6 CREDITS

Students are required to take one course from each subcategory

#### Subcategory A – Social Sciences 3 credits

BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workplace	3
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	3
PSYX	100	Introduction to Psychology	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3

#### Subcategory B - History 3 credits

HSTA	101	American History I	3
HSTA	102	American History II	3
HSTR	159	World History to 1500 CE	3
HSTR	160	Modern World History	3
PSCI	230	Introduction to International Relations	3

### CATEGORY 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
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
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

### CATEGORY V: ARTS & HUMANITIES 6 credits

Students are required to take one course from each subcategory

#### Subcategory A – Fine Arts 3 credits

ARTZ	105	Visual Language-Drawing	3
ARTZ	106	Visual Language-2-D Foundations	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
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

#### Subcategory B - Humanities 3 credits

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
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*A minimum grade of C- or better is required in all major coursework*

### Biology Requirements

*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			

**Biology Total 12**

### Chemistry Requirements

*CHMY	141	College Chemistry I	4			
*CHMY	142	College Chemistry Laboratory I	1			
CHMY	143	College Chemistry II	4			
CHMY	144	College Chemistry Laboratory II	1			

#### Select One of the following:

CHMY And CHMY	211 212	Elements of Organic Chemistry Elements of Organic Chemistry Lab	3			
CHMY And CHMY	311 312	Analytical Chem-Quant Analysis Analytical Chem Lab – Quant Analysis		1		
CHMY And CHMY	321 322	Organic Chemistry I Organic Chemistry Lab				

**Chemistry Total 14**

### Earth Science Requirements

*GEO	101	Introduction to Physical Geology	3			
*GEO	102	Introduction to Physical Geology Laboratory	1			
GEO	205	Mineralogy	4			
GEO	211	Earth History and Evolution	3			
GEO	212	Earth History and Evolution Laboratory	1			

**Earth Science Total 12**

### Select either Physics or Geography/Geographic Information Systems

#### Physics

*ASTR	110	Introduction to Astronomy	3			
*ASTR	111	Introduction to Astronomy Lab	1			
Choose either PHSX 205/206 and PHSX 207/208 <b>OR</b> PHSX 220/221 and PHSX 232/233						
PHSX	205	College Physics I	3			
PHSX	206	College Physics I Lab	1			
PHSX	207	College Physics II	3			
PHSX	208	College Physics II Lab	1			

#### OR

PHSX	220	Physics I	3			
PHSX	221	Physics I Lab	1			
PHSX	232	Physics II and Thermodynamics	3			
PHSX	233	Physics II and Thermodynamics	1			

**Physics Total 12**

**Geography/Geographic Information System**

*GPHY	262	Spatial Sciences Tech and Applications	3			
*GPHY	263	Spatial Sciences Tech Lab	1			
GPHY	282	Mapping Techniques	3			
GPHY	380	Principles of GIS	3			
GPHY	484	Applied GIS/Spatial Analysis	3			

**Geography/Geographic Information System 13**

**Track Options – Complete 18 credits** from one of the following concentrations:

**I. Concentration in Environmental Social Science**

BIOB	375	General Genetics	3			
BIOB	376	General Genetics Lab	1			
BIOB	490	Undergraduate Research	3			
BIOB	498	Internship/Cooperative Education	3			
BIOE	370	General Ecology	3			
BIOE	371	General Ecology Lab	1			
BIOE	483	Evolution and Ecology	3			
BIOE	484	Evolution and Ecology	1			
BIOM	360	General Microbiology	3			
BIOM	361	General Microbiology Lab	1			
BIOO	320	General Botany	3			
BIOO	321	General Botany Lab	1			
BIOO	433	Plant Physiology	3			
BIOO	434	Plan Physiology Lab	1			
BIOO	435	Plant Systematics	2			
BIOO	436	Plant Systematics Lab	2			
BIOO	450	Vertebrate Zoology	3			
BIOO	451	Vertebrate Zoology Lab	1			
CHMY	311	Analytical Chem-Quant Analysis	3			
CHMY	312	Analytical Chem Lab-Quant Analysis	1			
CHMY	490	Undergraduate Research	V			
CHMY	498	Internship/Cooperative Education	V			
ERTH	303	Weather and Climate	4			
ERTH	498	Internship/Cooperative Education	V			
GEO	309	Undergraduate Research	V			
GEO	490	Undergraduate Research	V			
GEO	498	Cooperative Education/Internship	V			

**II. Concentration in Physical Science**

CHMY	311	Analytical Chem-Quant Analysis	3			
CHMY	312	Analytical Chem-Quant Analysis Lab	1			
CHMY	371	Phys Chem-Quantum Chemistry & Spctrscopy	3			
CHMY	372	Physical Chemistry Lab I	3			
CHMY	373	Phys Chem-Kntcs & Thermodynamics	3			
CHMY	374	Physical Chemistry Lab	1			
CHMY	401	Advanced Inorganic Chemistry	3			



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

<b>Categories</b>	<b>Credits</b>	<b>Earned</b>	<b>Remaining</b>
General Education	31	_____	_____
Biology	12	_____	_____
Chemistry	14	_____	_____
Earth Science	12	_____	_____
Physics or Geography/Geographic Info	12	_____	_____
Concentration	18	_____	_____
Upper Division Electives	7	_____	_____
Mathematics	8	_____	_____
Unrestricted Electives	V	_____	_____
Total	120	_____	_____

\*May satisfy General Education requirements.

**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).**