



ADVISING WORKSHEET
BACHELOR OF SCIENCE DEGREE
MAJOR IN BROADFIELD SCIENCE
General Bulletin 2025-2026

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
Category I: Global Academic Skills (10 credits)					
A. Mathematics (3 credits) <i>M 171- Major Requirement</i>					
B. English (3 credits)					
C. Communication & Information Literacy (3 credits)					
D. Skills for College Success ¹ (1 credit)	COLS 108				
Category II: Natural Sciences ² (6 credits)					
A. Life Sciences (3 credits) <i>BIOB 160/161 – Major Requirement</i>					
B. Physical Sciences (3 credits) <i>CHMY 141/142 – Major Requirement</i>					
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)					

¹ In addition to the MUS Transfer Policies (see MUS Core Curriculum (<https://catalog.msubillings.edu/undergraduate/admissions-registration/registerars-office/>), transfer and re-admit students who transfer in 30 or more credits are not required to meet this category.

² Some majors are required to take specific science labs as part of their requirements. Please speak with an advisor for more information.

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.

Reviewed:

GENERAL EDUCATION REQUIREMENTS

CATEGORY I: GLOBAL ACADEMIC SKILLS 10 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
M	171	Calculus I	4
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

Subcategory D – Skills for College Success ¹ 1 credit

COLS	108	The College Experience	
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CATEGORY II: NATURAL SCIENCES 6 credits

Students are required to take one course from Life Sciences and one course from Physical Sciences, which include lab exercises. ²

Subcategory A – Life Sciences 3 credits

BIOB	101	Discover Biology ³	3
BIOB	102	Discover Biology Lab ³	3
BIOB	120	Fundamentals of Biology Plants and People ³	3
BIOB	121	Fundamentals of Biology for Allied Health	3
BIOB	123	Fund of Biology: The Nature of Nutrition	3
BIOB	160	Principles of Living Systems	3
BIOB	161	Principles of Living Systems Lab ³	1
SCIN	101	Integrated Science I ^{3^}	4

Subcategory B – Physical Sciences 3 credits

ASTR	110	Introduction to Astronomy	3
ASTR	111	Introduction to Astronomy Lab ³	1
CHMY	121	Introduction to General Chemistry	3
CHMY	122	Introduction to General Chemistry Lab ³	1
CHMY	141	College Chemistry I	4
CHMY	142	College Chemistry Laboratory I ³	1
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Laboratory ³	1
GEO	112	Montana Geology	3
GPHY	262	Spatial Sciences Technology & Applications	3
GPHY	263	Spatial Sciences & Technology Lab ³	1
PHSX	103	Our Physical World ³	3
PHSX	104	Our Physical World Lab ³	1
PHSX	205	College Physics I	3
PHSX	206	College Physics I Lab ³	1
SCIN	103	Integrated Science II ^{3^}	4

CATEGORY II: 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

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² Some majors are required to take specific science labs as part of their requirements. Please speak with an advisor for more information.

³ Course includes lab exercises.

[^] Elementary Education majors can satisfy Natural Sciences by taking SCIN 101 and SCIN 103.

		Course	Credits	Grade	Semester	Equivalent
<i>A minimum grade of C- or better is required in all major coursework</i>						
Biology						
*BIOB & BIOB	160 161	Principles of Living Systems Principles of Living Systems Lab	4			
BIOB & BIOB	260 261	Cellular and Molecular Biology Cellular and Molecular Biology Lab	4			
Chemistry						
*CHMY & CHMY	141 142	College Chemistry I College Chemistry I Lab	5			
CHMY & CHMY	143 144	College Chemistry II College Chemistry II Lab	5			
Earth Science						
*GEO & GEO	101 102	Introduction to Physical Geology Introduction to Physical Geology Lab	4			
GEO & GEO	211 212	Earth History and Evolution Earth History and Evolution Lab	4			
Physics						
PHSX & PHSX	205 206	College Physics I College Physics I Lab	4			
Geography/Geographic Information System						
GPHY	282	Mapping Techniques	3			
Scientific Inquiry and Experiential Learning						
SCIN	289	Scientific Inquiry	1			
SCIN	499	Senior Thesis/Capstone	1			
<i>Select a minimum of 2 credits from the following</i>						
BIOB	490	Undergraduate Research	V			
BIOB	498	Internship/Cooperative Education	V			
CHMY	490	Undergraduate Research	V			
CHMY	498	Internship/Cooperative Education	V			
GEO	490	Undergraduate Research	V			
GEO	498	Internship/Cooperative Education	V			
PHSX	490	Undergraduate Research	V			
PHSX	498	Internship/Cooperative Education	V			
Select one of the following concentrations:						
I. Concentration in Botany						
<i>Required Botany Core</i>						
BIOO & BIOO	320 321	General Botany General Botany Lab	4			
BIOO & BIOO	433 434	Plant Physiology Plant Physiology Lab	4			
BIOO & BIOO	435 436	Plant Systematics Plant Systematics Lab	4			

<i>Additional Science Courses: Choose a minimum of 16 credits</i>						
BIOE & BIOE	370 371	General Ecology General Ecology Lab	4			
BIOB & BIOB	375 376	General Genetics General Genetics Lab	4			
BIOM & BIOM	360 361	General Microbiology General Microbiology Lab	4			
CHMY & CHMY	211 212	Elements of Organic Chemistry Elements of Organic Chemistry Lab	4			
CHMY & CHMY	321 322	Organic Chemistry I Organic Chemistry II	4			
<i>Selected in consultation with advisor <u>10 upper division credits</u> from the following rubrics: BCH, BIOB, BIOE, BIOO, CHMY, EARTH, GEO, GPHY, PHSX</i>						
<i>Math Requirements: Select <u>2 courses</u> from the following:</i>						
STAT	216	Introduction to Statistics *	4			
STAT	217	Intermediate Statistical Concepts	4			
PSYX & PSYX	225 226	Research Design and Analysis Research Design and Analysis Lab	4			

II. Concentration in Environmental Science

<i>Required Environmental Science Core</i>						
BIOE & BIOE	370 371	General Ecology General Ecology Lab	4			
BIOO & BIOO	320 321	General Botany General Botany Lab	4			
BIOO & BIOO	435 436	Plant Systematics Plant Systematics Lab	4			
CHMY & CHMY	311 312	Analytical Chem-Quant Analysis Analytical Chem-Quant Analysis Lab	4			
ENST	210	Introduction to Environmental Studies	3			
ENST	385	Environmental Impact & Policy Analysis	3			
ERTH	303	Weather and Climate	3			
GEO	309	Sedimentation and Stratigraphy	3			
GPHY	380	Principles of GIS	3			
<i>Selected in consultation with advisor <u>6 upper division credits</u> from the following rubrics: BCH, BIOB, BIOE, BIOO, CHMY, EARTH, GEO, GPHY, PHSX</i>						
<i>Math Requirements: Select <u>2 courses</u> from the following:</i>						
CHMY	250	Applied Math for the Sciences	3			
STAT	216	Introduction to Statistics *	4			
STAT	217	Intermediate Statistical Concepts	4			

BACHELOR OF SCIENCE DEGREE MAJOR IN BROADFIELD SCIENCE

Categories	Credits	Earned	Remaining
General Education	31	_____	_____
Biology	8	_____	_____
Chemistry	10	_____	_____
Earth Science	8	_____	_____
Physics	4	_____	_____
Geography/Geographic Info Systems	3	_____	_____
Scientific Inquiry & Experiential Learning	4	_____	_____
Concentration	44-46	_____	_____
Unrestricted Electives	V	_____	_____
Total	120	_____	_____

*May satisfy General Education requirements.

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

**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).**