



ADVISING WORKSHEET
BACHELOR OF ARTS DEGREE
MAJOR IN BIOLOGY
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 or STAT 216 – 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/registrar-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
HONR	205	Honors Inquiry and Research	3
LSCI	125	Research in the Information Age	3
Subcategory D – Skills for College Success ¹			1 credit
COLS	108	The College Experience	
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	1
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 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

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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 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			
BIOB	375	General Genetics	3			
BIOB	376	General Genetics Lab	1			
BIOB or BIOB	490 498	Undergraduate Research Internship/Cooperative Education	2			
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

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			
CHMY	211	Elements of Organic Chemistry	3			
CHMY	212	Elements of Organic Chemistry Lab	1			
BCH	380	Biochemistry	3			
BCH	381	Biochemistry Lab	1			

Chemistry Total 18

Foreign Language Requirement (2 semesters/1 full year of the same language)

Language Requirement 8

Mathematics or Statistics Requirement (choose one of the following)

*M	171	Calculus I	4			
*STAT	216	Introduction to Statistics	4			

Mathematics/Statistics Total 4

*May satisfy General Education requirements.

Course			Credits	Grade	Semester	Equivalent
Minor or Allied Health Concentration						
Select a minor or complete the Allied Health Concentration, which includes the following courses:						
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			
Electives						

BACHELOR OF ARTS DEGREE IN BIOLOGY

Categories	Credits	Earned	Remaining
General Education	31	_____	_____
Biology Requirements	35	_____	_____
Chemistry Requirements	18	_____	_____
Foreign Language Requirement	8	_____	_____
Math or Statistics Requirement	4	_____	_____
Minor Or Allied Health Concentration	21	_____	_____
Electives	V	_____	_____
Total	120	_____	_____

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: