



ADVISING WORKSHEET
 BACHELOR OF SCIENCE DEGREE MAJOR IN BROADFIELD SCIENCE
 TEACHING LICENSURE OPTION
 GENERAL BULLETIN 2022-2023

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 (9 credits) A. Mathematics (3 credits) <i>STAT 216 or M 171 – Major Requirements</i> B. English (3 credits)	#				
	# WRIT 101				
C. Communication & Information Literacy (3 credits)	# COMX 111 or 115				
Category II: Natural Sciences (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab) <i>BIOB 160/161 & CHMY 141 – Major Requirements</i>	#				
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits) B. History (3 credits)	#				
	EDU 105				
	# HSTA 101 or 102				
Category IV: Cultural Diversity (3 credits)	# NASX 105 or 205				
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.
 # = Required for Admission to the Teacher Education Program

Reviewed:

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
M	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
<i>STAT</i>	<i>216</i>	<i>Introduction to Statistics</i>	<i>4</i>

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**

<i>COMX</i>	<i>111</i>	<i>Introduction to Public Speaking</i>	<i>3</i>
<i>OR</i>			
<i>COMX</i>	<i>115</i>	<i>Introduction to Interpersonal Communication</i>	<i>3</i>

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	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
BIOB	121	Fundamentals of Biology for Allied Health	3
BIOB	123	Fund of Biology: The Nature of Nutrition	3
<i>BIOB</i>	<i>160</i>	<i>Principles of Living Systems</i>	<i>3</i>
<i>BIOB</i>	<i>161</i>	<i>Principles of Living Systems Lab</i>	<i>1</i>
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
<i>CHMY</i>	<i>141</i>	<i>College Chemistry I</i>	<i>3</i>
<i>CHMY</i>	<i>142</i>	<i>College Chemistry Laboratory I</i>	<i>1</i>
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
SCIN	104	Integrated Science II Lab	1

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**

<i>HSTA</i>	<i>101</i>	<i>American History I</i>	<i>3</i>
<i>OR</i>			
<i>HSTA</i>	<i>102</i>	<i>American History II</i>	<i>3</i>

CATEGORY IV: CULTURAL DIVERSITY 3 credits

<i>NASX</i>	<i>105</i>	<i>Introduction to Native American Studies</i>	<i>3</i>
<i>OR</i>			
<i>NASX</i>	<i>205</i>	<i>Native Americans in Contemporary Society</i>	<i>3</i>

CATEGORY V: ARTS & HUMANITIES 6 credits

Students are required to take one course from each subcategory

Subcategory A – Fine Arts **3 credits**

ARTZ	101	Art Fundamentals	3
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
<i>A minimum grade of C or better is required in all major coursework</i>					
Professional Education Core					
*#EDU	105	Education and Democracy	3		
^#EDU	220/ 220L	Human Growth and Development/ Lab (45 hour practicum required)	3		
#EDU	221	Educational Psychology and Measurement	3		
^#EDSP	204	Introduction to Teaching Exceptional Learners (15 hour practicum required)	3		
#HTH	412	Drugs and Alcohol	1		
EDU	333	Reading and Writing Across the Curriculum	3		
EDU	343	Strategies for Managing Diverse Learners	2		
EDU	354	Secondary Junior Field	2		
EDU	381	Curriculum Theory and Practice	3		
EDU	383	Assessment in Education	3		
EDU	397G	Methods: 5-12 Science	2		
EDU	406	Philosophical, Legal & Ethical Issues in Education	3		
EDU Or EDU	495A 495C	Student Teaching: K-12 Student Teaching: 5-12	9		

#Required for Admission to the Educator Preparation Program

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		

Chemistry Requirements

*CHMY	141	College Chemistry I	3		
* CHMY	142	College Chemistry I Lab	1		
CHMY	143	College Chemistry II	3		
CHMY	144	College Chemistry II Lab	1		
Select One of the following:					
CHMY And CHMY	211 212	Elements of Organic Chemistry Elements of Organic Chemistry Lab	3 1		
CHMY And CHMY	311 312	Analytical Chem-Quant Analysis Analytical Chem Lab – Quant Analysis	3 1		
CHMY And CHMY	321 322	Organic Chemistry I Organic Chemistry Lab I	3 1		

Earth Science Requirements

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

Physics Requirements

*ASTR	110	Introduction to Astronomy	3			
ASTR	111	Introduction to Astronomy Lab	1			
Select either PHSX 205/207 or PHYX 220/232 series						
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 Lab	1			

Mathematics and Statistics Requirements (Choose two, one from each rubric)

*M	161	Survey of Calculus	3			
*M	171	Calculus I	4			
*STAT	216	Introduction to Statistics	4			

Internship

Earn a minimum of two credits chosen from the following:						
BIOB	298/498	Internship/Cooperative Education	2			
CHMY	298/498	Internship/Cooperative Education	2			
ERTH	498	Internship/Cooperative Education	2			
GEO	498	Internship/Cooperative Education	2			
PHSX	498	Internship/Cooperative Education	2			

Upper Division Science Electives

Choose a minimum of 13 credits selected in consultation with advisor from the following rubrics: <i>BCH, BIOB, BIOE, BIOH, BIOM, BIOO, CHMY, EARTH, GEO, PHSX</i>						

*May satisfy General Education requirements.

BACHELOR OF SCIENCE DEGREE MAJOR IN BROADFIELD SCIENCE – TEACHING LICENSURE OPTION

Categories	Credits	Earned	Remaining
General Education	31	_____	_____
Professional Education Core	*37	_____	_____
Biology	*8	_____	_____
Chemistry	*9	_____	_____
Earth Science	12	_____	_____
Physics	12	_____	_____
Mathematics/Statistics	*3-4	_____	_____
Internship	2	_____	_____
Upper Division Electives	V	_____	_____
Total	128	_____	_____

****3 credits that also satisfy General Education requirements are not included in the total number of credits.**

*****4 credits that also satisfy General Education requirements are not included in the total number of credits.**

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:

^ Course requires a completed Federal Criminal Background Check in order to complete the required practicum hours within the class. Packets may be picked up at either the Advising Center in McMullen Hall or in the College of Education, or can be printed off the website at <http://www.msubillings.edu/coe/etp/FieldExper/FingerprintInfo.htm>. The background check is only valid for 24 months.