

ADVISING WORKSHEET

TRANSFER INSTITUTION(S):

BACHELOR OF SCIENCE DEGREE MAJOR IN MATHEMATICS TEACHING LICENSURE OPTION – SINGLE SUBJECT ENDORSEMENT GENERAL BULLETIN 2019-2020

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

Student ID #_____

GENERAL EDUCATION REQUIREMENTS – SEE ATTACHED PAGE FOR SPECIFIC COURSES

Name

General Education Category	Course #	Credits	Grade	Semester	Equivalent
Category I: Global Academic Skills (9 credits)#A. Mathematics (3 credits)					
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)					
Category III: Social Sciences and History (6 credits) A. Social Science (3 credits)	EDU 105				
B. History (3 credits) #	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 Educator Preparation Program

Reviewed:

GENERAL EDUCATION REQUIREMENTS

М			
	114	Extended Technical Mathematics	3
М	121	College Algebra	3
М	122	College Trigonometry	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
М	171	Calculus I	4
STAT	141	Introduction to Statistical Concepts	3
STAT	216	Introduction to Statistics	4
Subcateg	ory R	- English 3 cred	ite
WRIT	101	College Writing I	3
WRIT	121	Introduction to Technical Writing	3
WRIT	122	Introduction to Business Writing	3
WRIT	201	College Writing II	3
WRIT	220	Business & Professional Writing	3
WRIT	221	Intermediate Technical Writing	3
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	, ,	Communication & Information Literacy 3 cro	
COMX	111	Introduction to Public Speaking	3
OR			•
СОМХ	115	Introduction to Interpersonal Communication	on3
CATEGO	RY II:	NATURAL SCIENCES 6 cr. lecture & 1 cr. l	ab
		uired to take one course from each subcategory	, and
		esponding lab <u>or</u> Integrated Sciences	
		– Life Sciences 3-4 cred	its
BIOB	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
BIOB	121	Fundamentals of Biology for Allied Health	3
BIOB	122	Fund of Biology: Evolution, Ecology, and	-
		Biodiversity	3
BIOB	100	Fund of Biology: The Nature of Nutrition	
	123		3
BIOB	123 160		3 3
BIOB BIOB	123 160 161	Principles of Living Systems Principles of Living Systems Lab	3 3 1
BIOB	160 161	Principles of Living Systems Principles of Living Systems Lab	3 1
BIOB Subcateg	160 161 gory B -	Principles of Living Systems Principles of Living Systems Lab - Physical Sciences 3-4 credit	3 1
BIOB Subcateg ASTR	160 161 cory B - 110	Principles of Living Systems Principles of Living Systems Lab - Physical Sciences 3-4 credi Introduction to Astronomy	3 1 its 3
BIOB Subcateg ASTR ASTR	160 161 gory B - 110 111	Principles of Living Systems Principles of Living Systems Lab - Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab	3 1 its 3 1
BIOB Subcateg ASTR ASTR CHMY	160 161 gory B - 110 111 121	 Principles of Living Systems Principles of Living Systems Lab Physical Sciences Introduction to Astronomy Introduction to Astronomy Lab Introduction to General Chemistry 	3 1 its 3 1 3
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CATEGO	RY III:	SOCIAL SCIENCES AND HISTORY 6 CRED	ITS
Students d	are reqi	uired to take one course from each subcategor	v
Subcateg	ory A -	- Social Sciences 3 cred	its
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
ECNS	202	Principles of Macroeconomics	3 3
EDU	105	Education and Democracy	3
GPHY	141	Geography of World Regions	3 3 3 3 3 3 3 3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Government	3
PSCI	220	Introduction to American Government	3
PSYX	100		2
SOCI		Introduction to Psychology	2
	101	Introduction to Sociology	3
SOCI	201	Social Problems	3
Subaataa	D	History 3 cree	1:40
Subcateg HSTA	огу Б - 101		
HSTA OR	101	American History I	3
UK HSTA	102	American History II	3
IISTA	102	American History II	5
Currico	DX7 1X7.		
		CULTURAL DIVERSITY 3 cred	
NASX	105	Introduction to Native American Studies	3
OR			
NASX	205	Native Americans in Contemporary Society	3
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CATECO			
		ARTS & HUMANITIES 6 cred	
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		Course	Credits	Grade	Semester	Equivalent
A minimum grade of C or better is required in all major coursework						
rofessiona	ıl Educati	on 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	354	Secondary Junior Field	2			
EDU	380	Introduction to Curriculum Planning/Practice	2			
EDU	406	Philosophical, Legal & Ethical Issues in Education	3			
EDU	494	Seminar/Workshop: Mathematics	1			
EDU	495C	Student Teaching: 5-12	9			
EDU	497B	Methods: 9-12 Mathematics	3			
EDU	497R	Methods: 5-8 Mathematics	3			

#Required for Admission to the Educator Preparation Program

Mathematics Required Courses

CSCI	111A	Programming with Java I	4	
М	110	Mathematical Computing	1	
*M	171	Calculus I	4	
М	172	Calculus II	4	
М	242	Methods of Proof	3	
М	273	Multivariable Calculus	4	
М	305	Discrete Structures I	4	
М	329	Modern Geometry	3	
М	333	Linear Algebra	4	
М	371	Numerical Computing	4	
М	431	Abstract Algebra I	3	
М	471	Mathematical Analysis	3	
М	472	Introduction to Complex Analysis	3	
М	499	Capstone	3	
STAT	341	Introduction to Probability and Statistics	4	

*May satisfy General Education requirements.

BACHELOR OF SCIENCE DEGREE IN MATHEMATICS – TEACHING LICENSURE OPTION – SINGLE SUBJECT ENDORSEMENT

Categories	Credits	Earned	Remaining
General Education	31		
Professional Education Core	**36		
Mathematics Major	**48		
Electives (may vary)	V		
Total	128		

**Three (3) credits that also satisfy General Education requirements and are not included in the total 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 <u>http://www.msubillings.edu/coe/etp/FieldExper/FingerprintInfo.htm</u>. The background check is only valid for 24 months.