



## ADVISING WORKSHEET

**BACHELOR OF SCIENCE DEGREE MAJOR IN MATHEMATICS  
TEACHING LICENSURE OPTION – SINGLE SUBJECT ENDORSEMENT  
GENERAL BULLETIN 2018-2019**

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)	#				
B. English (3 credits)	#	WRIT 101			
C. Communication & Information Literacy (3 credits)	#	COMX 111 or 115			
<b>Category II: Natural Sciences</b> (7 credits) 2 lectures (6 credits) & 1 lab (1 credit) (1 life science & 1 physical science & 1 lab)	#				
<b>Category III: Social Sciences and History</b> (6 credits) A. Social Science (3 credits)		EDU 105			
B. History (3 credits)	#	HSTA 101 or 102			
<b>Category IV: Cultural Diversity</b> (3 credits)	#	NASX 105 or 205			
<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.  
# = Required for Admission to the Educator Preparation Program

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
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
WRIT	201	College Writing II	3
WRIT	220	Business & Professional Writing	3
WRIT	221	Intermediate Technical Writing	3

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

**COMX 111** *Introduction to Public Speaking* 3

**OR**

**COMX 115** *Introduction to Interpersonal Communication* 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	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	123	Fund of Biology: The Nature of Nutrition	3
BIOB	160	Principles of Living Systems	3
BIOB	161	Principles of Living Systems 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
CHMY	141	College Chemistry I	3
CHMY	142	College Chemistry Laboratory I	1
GEO	101	Introduction to Physical Geology	3
GEO	102	Introduction to Physical Geology Laboratory	1
GPHY	111	Introduction to Physical Geography	3
GPHY	112	Introduction to Physical Geography 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
PHSX	105	Fundamentals of Physical Science	3
PHSX	106	Fundamentals of Physical Science Lab	1

### Integrated Sciences

SCIN 101, 102, 103, 104 Integrated Sciences 3, 1, 3, 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

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
<b>EDU 105</b>		<b>Education and Democracy</b>	<b>3</b>
GPHY	141	Geography of World Regions	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
PSYX	231	Human Relations	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3

### Subcategory B - History 3 credits

**HSTA 101** *American History I* 3

**OR**

**HSTA 102** *American History II* 3

## CATEGORY IV: CULTURAL DIVERSITY 3 credits

**NASX 105** *Introduction to Native American Studies* 3

**OR**

**NASX 205** *Native Americans in Contemporary 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	101	Art Fundamentals	3
ARTZ	105	Visual Language-Drawing	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
MART	260	Computer Presentation and Animation	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
THTR	120	Introduction to Acting I	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	240	The Bible as 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>					
<b>Professional Education Core</b>					
*#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		
M	110	Mathematical Computing	1		
*M	171	Calculus I	4		
M	172	Calculus II	4		
M	242	Methods of Proof	3		
M	273	Multivariable Calculus	4		
M	305	Discrete Structures I	4		
M	329	Modern Geometry	3		
M	333	Linear Algebra	4		
M	371	Numerical Computing	4		
M	431	Abstract Algebra I	3		
M	471	Mathematical Analysis	3		
M	472	Introduction to Complex Analysis	3		
M	499	Capstone	3		
STAT	341	Introduction to Probability and Statistics	4		

\*May satisfy General Education requirements.

**Electives**

