

ADVISING WORKSHEET

BACHELOR OF SCIENCE DEGREE MAJOR IN BIOLOGY TEACHING LICENSURE OPTION General Bulletin 2015-2017

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) STAT 141 or 216 and M 171 – Major Requirements					
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)					
BIOB 160/161 & CHMY 141 – Major Requirements					
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

CATEGO	DRY I: (GLOBAL ACADEMIC SKILLS	9 credits
Students	are req	uired to take one course from each subc	ategory
		- 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	131	Mathematics for Elementary Teachers	
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
Subcate	gory 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
Subcate	gory C-	- Communication & Information Literac	ey 3 credits
COMX	111	Introduction to Public Speaking	3
OR		•	
COMX	115	Introduction to Interpersonal Comm	unication3
		•	
CATEGO	ORY II:	NATURAL SCIENCES 6 cr. lecture &	t 1 cr. lab
Students	are req	uired to take one course from each subc	ategory and
at least o	ne corr	esponding lab <u>or</u> Integrated Sciences	
Subcate	gory A	Life Sciences	-4 credits
BIOB	101	Discover Biology	3
BIOB	102	Discover Biology Lab	1
BIOB	160	Principles of Living Systems	3
BIOB	<i>161</i>	Principles of Living Systems Lab	1
Subcate	gory 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 La	b 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 Lab	oratory 1
GPHY	111	Introduction to Physical Geography	3
GPHY	112	Introduction to Physical Geography L	ab 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 La	b 1
Integrat			
		3, 104 Integrated Sciences	3, 1, 3, 1
		SOCIAL SCIENCES AND HISTORY	6 credits
		uired to take one course from each subc	
		- Social Sciences	3 credits
ANTY	217	Physical Anthropology & Archeology	
BGEN	105	Introduction to Business	3
COMX	106	Communicating in a Dynamic Workp	lace 3
ECNS	201	Principles of Microeconomics	3
ECNS	202	Principles of Macroeconomics	3
EDU	105	Education and Democracy	3
GPHY	141	Geography of World Regions	3
HTH	110	Personal Health and Wellness	3
PSCI	210	Introduction to American Governmen	
PSCI	220	Introduction to Comparative Government	nent 3
PSYX	100	Introduction to Psychology	3
PSYX	231	Human Relations	3
SOCI	101	Introduction to Sociology	3
SOCI	201	Social Problems	3

Subcate	gory B	- History	3 credits
HSTA	101	American History I	3
OR			
HSTA	102	American History II	3
CATEGO	RY IV:	CULTURAL DIVERSITY	3 credits
NASX	105	Introduction to Native American St.	udies 3
OR			
NASX	205	Native Americans in Contemporary	Society 3
CATEGO	RY V:	ARTS & HUMANITIES	6 credits
		uired to take one course from each sub	
		– Fine Arts	3 credits
ARTZ	101		3
ARTZ	105	Visual Language-Drawing	
ARTZ	131	Ceramics for Non-majors	3
CRWR	-	Intro Creative Writing Workshop	3
FILM	160	Introduction to World Cinema	3
LIT	270	Film & Literature	3 3 3 3 3 on 3
MART	260	Computer Presentation and Animatic	on 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	s 1
PHOT	154	Exploring Digital Photography	3
THTR	101	Introduction to Theatre	3
THTR	120	Introduction to Acting I	3
Subcate	gory B	- Humanities	3 credits
ARTH	150	Introduction to Art History	3
HONR	111	Perspectives and Understanding	3
LIT	110	Introduction to Literature	3 3 3
LIT	240	The Bible as Literature	3
PHL	110	Introduction to Ethics	3
PHL	111	Philosophies of Life	3

		Course	Credits	Grade	Semester	Equivalent
D 6 :		A minimum grade of C or better is require	d in all mo	ijor cours	ework	
Profession *#EDU	al Education 105	Education and Democracy	3	1		
^#EDU	220/	Human Growth and Development/	3			
"LDC	220L	Lab (45 hour practicum required)	3			
#E D U	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	380	Introduction to Curriculum Planning/Practice	2			
EDU	354	Secondary Junior Field	2			
EDU	397G	Methods: 5-12 Science	2			
EDU	406	Philosophical, Legal & Ethical Issues in Education	3			
EDU	495C	Student Teaching: 5-12	9			
#Required	for Admis	sion to the Educator Preparation Program	1	1		
Biology Re	auirement	S				
*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			
BIOE	370	General Ecology	3			
BIOE	371	General Ecology Lab	1			
BIOB	375	General Genetics	3			
BIOB	376	General Genetics Lab	1			
BIOB	498	Internship/Cooperative Education	2			
BIOB	499	Capstone	1			
Biology ele	ectives selec	eted in consultation with an advisor.	22			
Chamister	Dagui	Biology Total	45			
*CHMY	Requirem 141	College Chemistry I	3			
*CHMY	142	College Chemistry Laboratory I	1			
СНМҮ	143	College Chemistry II	3			
			1 -			

Chemistry Requirements (continued)

CHMY	211	Elements of Organic Chemistry	3		
CHMY	212	Elements of Organic Chemistry Laboratory	1		
CHMY	311	Analytical Chemistry – Quantitative Analysis	3		
CHMY	312	Analytical Chemistry Laboratory – Quantitative Analysis	1		
ВСН	380	Biochemistry	3		
ВСН	381	Biochemistry Lab	1		

Chemistry Total

20

Students wishing to obtain a minor in Chemistry will need to take CHMY 321/322 and 323/324 instead of CHMY 211/212.

Mathematics and Statistics Requirement

*M	171	Calculus I	4		
*STAT	141	Introduction to Statistical Concepts	3		
OR					
*STAT	216	Introduction to Statistics	4		

Mathematics/Statistics Total 7-8

Physics Requirement (Choose one Physics course with lab)

* PHSX	205	College Physics I	3		
* PHSX	206	College Physics I Laboratory	1		
OR			•	•	
PHSX	220	Physics I	3		
PHSX	221	Physics I Laboratory	1		

Physics Total

BACHELOR OF SCIENCE DEGREE IN BIOLOGY - TEACHING LICENSURE OPTION

Categories	Credits	Earned	Remaining
General Education	31		
Professional Education Core	**31		
Biology Requirements	***41		
Chemistry Requirements	**17		
Math/Statistics Requirements	**4-5		
Physics Requirements	4		
Total	128-129		

^{**3} 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.

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