

General Science Broadfield

2014-2016 Course Catalog

All coursework must be completed with a "C" or better AND a minimum GPA of 2.75 in major, minor and/or option, and cumulatively is required.

Name: _____

GID#: _____

UNIVERSITY CORE REQUIREMENTS

Rubric/#	Title	Cr	Gr
M 161Q OR M 171Q	Survey of Calculus Calc & Analy. Geom.	4	
WRIT 101W	College Writing	3	
EDU 101US	Teaching & Learning	3	
IA or RA		3	
IH or RH		3-4	
IN or RN		4	
BIOB 170IN -	Princ. Of Bio. Diversity		
CS		3	
BIOB 160 -	Princ. Of Living Systems		
IS or RS		3	
EDU 223IS -	Educational Psychology		
D		3	
EDU 211D -	Multicultural Education		
(R, RA, RH, RN, RS) (RA or RN recommended)		3	

In addition to EDU 211D, it is recommended that students take NASX 105 or NASX 232 to meet MT OPI *Indian Education For All* requirements if electives are needed.

Application to the Teacher Education Program must be completed one semester prior to enrolling in methods & teaching practicum courses. **You must be accepted into the program before enrolling in methods courses.**

Deadlines and instructions are located on the Education Advising website: www.montana.edu/ehhd/educ/advising

REQUIRED EDUCATION CLASSES

Please note that Education classes have pre-requisites that must be met or approved by the Education Department.

Rubric/#	Title	Cr	Gr
FCS 101IS	Ind Fam Dev Well-Being	3	
EDU 202	Early Field Experience	1	
This course requires an orientation the semester before.			
EDU 223IS	Ed. Psych. & Adol. Dev.	3	
EDU 211D	Multicultural Education	3	
EDU 370	Integrating Tech into Educ.	2	
EDU 382	Assm't, Curr. & Instruction	3	
EDSP 306	Exceptional Learners	3	
EDU 494	Sem: Lab Safety	1	
EDU 497-30	Methods: 5-12 Science	3	
EDU 395	Teaching Practicum	3	
EDU 495	Student Teaching	12	
EDU 408	Professional Issues: 5-12	2	

Total Professional Preparation: 38

<p>It is the student's responsibility to review the requirement and confirm that they have met both the degree requirement AND the University requirement as stated in the MSU Course Bulletin.</p>	GPA & CREDIT TOTALS	
	MINOR GPA:	
	MAJOR (Content) GPA:	
	CUMULATIVE GPA:	
	# of Elective Credits:	
	# of Upper Division Credits	
	Total # of Credits:	128

Prior to acceptance in the Teacher Education Program and Student Teaching students must have a "C" or better in all professional and content courses and have a 2.75 GPA in major, minor and/or option, and cumulatively.

MAJOR REQUIREMENTS (Content)

BIOLOGY REQUIREMENTS

Rubric/#	Title	Cr	Gr
BIOB 170IN	Prin of Biol Diversity	4	
BIOB 160	Prin Living System	4	
BIOM 103IN <small>OR</small>	Unseen Univ: Microbes	3	
BIOM 360	General Microbiology	5	
BIOB 375	General Genetics	3	
BIOE 370	General Ecology	3	
BIOO 412 <small>OR</small>	Animal Physiology	3	
BIOO 433	Plant Physiology	3	
BIOB 420	Evolution	3	

Total 23-25

EARTH SCIENCE REQUIREMENTS

Rubric/#	Title	Cr	Gr
ERTH 101IN	Earth System Science	4	
ERTH/GEO	<small>(ERTH 212RN opt.)</small>	3-4	
ERTH 303 <small>OR</small>	Weather & Climate	3	
GEO 211	Historical Geology	3	

Total 10-11

CHEMISTRY REQUIREMENTS

Rubric/#	Title	Cr	Gr
CHMY 141	General Chemistry I	4	
CHMY 143	General Chemistry II	4	
CHMY 211	Elements of Organic Chem.	5	

Total 13

PHYSICS REQUIREMENTS

Rubric/#	Title	Cr	Gr
PHSX 205	College Physics I	4	
PHSX 207	College Physics II	4	
ASTR 371	Solar System Astronomy	4	

Total 12

HISTORY OF SCIENCE REQUIREMENTS

Choose ONE (1) of the following:

Rubric/#	Title	Cr	Gr
RLST 217IH	Religion & Science		
HSTR 208RH	Sci., Env., Tech., Soc.: Common Exper.		
HSTR 282CS	Darwinian Revolution		
HSTR 412	American Thought/Culture	3	
HSTR 417	Sci., Tech., & Society		
HSTR 419	Modern Science		
HSTR 484	World Environmental History		

ELECTIVE REQUIREMENTS

Varies – Must meet 128 credit requirement

Rubric/#	Title	Cr	Gr

The PRAXIS II exam must be successfully passed in every teaching major and minor before teacher licensure will be given.

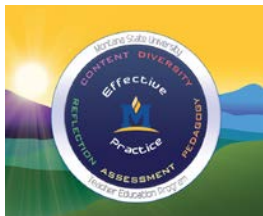
Students should plan to take the PRAXIS II exam prior to student teaching.

The coursework on this page represents the content area. These courses must combine to equal a 2.75 GPA prior to student teaching placement. Students pursuing this major are encouraged to pursue a Teaching Minor.

A minimum of 128 credits is required for graduation. Forty-two (42) of these credits must be in courses numbered 300 and above.

If adding a Teaching Minor, you should expect to take more than 128 credits to complete the program.

Prior to student teaching placement students must meet all requirements listed above, have a “C” or better in all professional and content courses and have a 2.75 GPA in all areas listed above in the GPA & Credit Totals box.



General Science Broadfield Suggested Curriculum by Semester with Summer 2014-2016

Freshman Year (_____ cr)

Summer Courses are recommended (not required) to reduce credit load in Fall/Spring semesters and support degree completion in 4 years.

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
WRIT 101W - College Writing	3		EDU 101US – Teaching & Learning	3	
M 161Q – Survey of Calc./ M171Q – Calc & Analy. Geom.	4		EDU 223IS - Ed Psych and Child Dev.	3	
FCS 101IS – Indiv. & Fam. Dev.: Lifespan	3		EDU 202 – Early Field Experience	1	
BIOB 170IN – Prin. Of Biol. Diversity	4		PHSX 205 – College Physics I (M 151)	4	
Required Elective	1-3		CHMY 141 – College Chemistry I (M 161/M 171)	4	

Attend Orientation for EDU 202 – Early Field Experience in November – course will finish in the Spring Semester where credit is recorded.

Sophomore Year (_____ cr) Check course pre-requisites

Fall			Spring			Summer
Course	Cr	Grd	Course	Cr	Grd	
EDU 370 – Integrating Tech. into Educ.	2		EDU 211D – Multicultural Education	3		<i>Taken @ MSU or CC</i>
BIOB 160 – Prin. Of Living Systems (CHMY 141)	4		ERTH 101IN – Earth System Science	4		IH Core – History (3-4)
CHMY 143 – College Chemistry II	4		BIOE 370 – General Ecology (S) (BIOB 170; M 161)	3		Required Elective (3-4)
PHSX 207 – College Physics II	4		CHMY 211 – Elements of Organic Chem.	5		
IA/RA Core	3		Required Elective	0-3		(3-4)

**It is recommended to take an RA to meet both the IA & R Core*

Junior Year (_____ cr) Must be at 100-102 credits by end of Spring Semester to complete in 4 years.

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
EDU 382 – Assessment, Curriculum & Instruction	3		EDSP 306 – Exceptional Learners (Jr. St. + EDU 223IS)	3	
Earth Science Elective (ERTH 212RN [F] suggested)	4		BIOB 420 – Evolution (S) (BIOB 375)	3	
BIOB 375 – General Genetics (BIOB 160)	4		ERTH 303 – Weather & Climate (F) or GEO 211 – Historical Geology (S)	3	
BIOO 412 – Animal Physiology (F) or BIOO 433 – Plant Physiology (S)	3		BIOB 103IN – Unseen Universe: Microbes or BIOM 360 – General Microbiology (S)	3-5	
Required Elective	0-3		Required Elective	3	

Submit application to Teacher Education Program

Attend Student Teaching Meeting + Submit Grad App

Senior Year (_____ cr)

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
Required Elective	3-4		EDU 495 – Student Teaching	12	
ASTR 371 – Solar System Astronomy (F)	3		EDU 408 – Professional Issues	2	
History of Science (Restricted Elective)	3				
EDU 497 – Methods: 5-12 Science	3				
EDU 395 – Practicum	3				
EDU 494 – Seminar: Lab Safety	1				
			Total # of credits :		

Submit Application to Student Teach



Name: _____

Student ID: _____



Department of Education • Semester Planning Sheet

Autumn Semester <input style="width: 30px;" type="checkbox"/>			Spring Semester <input style="width: 30px;" type="checkbox"/>			Summer <input style="width: 30px;" type="checkbox"/>		
Rubric	Number	Credits	Rubric	Number	Credits	Rubric	Number	Credits
Autumn Semester <input style="width: 30px;" type="checkbox"/>			Spring Semester <input style="width: 30px;" type="checkbox"/>			Summer <input style="width: 30px;" type="checkbox"/>		
Rubric	Number	Credits	Rubric	Number	Credits	Rubric	Number	Credits
Autumn Semester <input style="width: 30px;" type="checkbox"/>			Spring Semester <input style="width: 30px;" type="checkbox"/>			Summer <input style="width: 30px;" type="checkbox"/>		
Rubric	Number	Credits	Rubric	Number	Credits	Rubric	Number	Credits
Autumn Semester <input style="width: 30px;" type="checkbox"/>			Spring Semester <input style="width: 30px;" type="checkbox"/>			Summer <input style="width: 30px;" type="checkbox"/>		
Rubric	Number	Credits	Rubric	Number	Credits	Rubric	Number	Credits