

Science Education Option 2014-2016

ALL CLASSES MUST BE COMPLETED WITH A "C" OR BETTER AND A 2.75 GPA.

NAME: _____ GID: _____

The science education option focuses on courses designed to strengthen the student's background in sciences. While neither a minor nor an endorsement, this option will build an excellent foundation for those interested in teaching science at the grade school and middle school level. This option does not lead to State Endorsement in science. However, a notation will appear on the student's transcript indicating an additional option in science education.*

Take ALL of the following:

Rubric/#	Course Title	Semester (s) Offered	Credits	Grade
Biological Science BIOB 170* BIOB 160* BIOE 103 BIOM 103	1 lab course* (4cr) and 1 choice (3-4 cr) from list below Prin. Of Biol Diversity Prin of Living System Environmental Science & Society General Microbiology	Fall/ Spring Fall/Spring Fall/Spring Fall/Spring/Summer	7-8 cr	
Earth Science EARTH 101IN* EARTH 212RN* GEO 103CS* EARTH 102CS ASTR 110IN	1 lab course* (4cr) and 1 choice (3-4 cr) from list below Intro to Physical Geology Yellowstone Scientific Lab Intro to Environmental Geography Topics in Earth Science (<i>choose 3-4</i>) Mysteries of the Sky	Fall/Spring Fall Spring Fall/Spring Fall/ Spring/ Summer	7-8 cr	
Physical Science CHMY 121* CHMY 141* PHSX 103IN PHSX 201IN* PHSX 205* PHSX 207*	1 Chemistry lab course* (4 cr) and 1 Physics lab course* (3-4 cr) and 1 choice (3-4 cr) from list below Introduction to General Chemistry General Chemistry I Our Physical World Physics by Inquiry College Physics I College Physics II	Fall/ Spring/ Summer Fall/ Spring/ Summer Spring Fall/ Spring Fall/Spring/ Summer Fall/Spring/ Summer	9-12 cr	

Total Credits: 15+

A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above. Students choosing this competency voluntarily select a program that requires additional coursework above the 120 credits required for a standard four-year degree.

Students must declare this as an additional option by completing the appropriate form.

For additional information contact:

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 Department of Education
mleonard@montana.edu
 406-994-2336



Elementary (K-8) Education Major - Plus Science Option Suggested Curriculum by Semester 2014-2016

All grades must be completed with a "C" or better and a 2.75 GPA in major, minor, option & CUM. A minor or option is encouraged but not required for this major.

Freshman Year (_____ Cr) *Summer courses are recommended (not required) to reduce credit load in Fall/Spring semesters and support degree completion in 4 years – especially if adding a minor or option.*

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
EDU 101US - Teaching & Learning	3		EDU 204IA – Creative Arts & Lifelong Learning	3	
WRIT 101W - College Writing	3		NASX Course – NASX 105D; NASX 205D; OR 232D	3	
EDU 222IS - Ed Psych and Child Development	3		Human Cultures – GPHY 121D; GPHY 141D; ANTY 101D; SOCI 101IS; AMST101D	3	
Biology from List (with Lab)	3-4		Earth Science from List (with Lab)	4	
Math 132 - Numbers & Ops for K-8 Teachers*	3		Math 133Q – Geo & Meas. for K-8 Tchrs	3	
<small>*(Must test into Math Level 3 via MPLEX or ACT/SAT to register)</small>					

Sophomore Year (_____ Cr) *Check course pre-requisites.*

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
PSCI 210 – American Government	3		EDU 211D – Multicultural Education	3	
EDU 331 – Lit. & Lit. for Children	3		EDU 370 – Integrating Tech into Education	2	
TE250CS Technology & Society	3		Earth Science from List	3-4	
CHMY 121/141 (STEM Elective)	4		History Core – HSTA 101IH; HSTA 102IH; HSTR 101IH OR HSTR102IH	4	
Math 234 – Adv Topics Math K-8 Teachers	3		Physical Science from List (with Lab)	3-4	

Junior Year (_____ cr) *Must be at 93 credits at end of Spring semester to graduate in 4 years*

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
EDU 382 – Assessment, Curriculum & Instruction	3		Physical Science from List	3-4	
EDSP 306 – Exceptional Learners	3		EDU 397 – K-8 Creative Arts Methods	3	
EDU 330 – Emergent Literacy	3		EDU 397 – K-8 Science Methods	3	
EDU 397 - K-8 Health Enhancement	3		EDU 342 – Managing the Learn. Env.	3	
Biology from List	4		EDU 395 – Practicum I	3	
Submit application to Teacher Education Program			Attend Student Teaching Meeting		

Senior Year (_____ cr)

Fall			Spring		
Course	Cr	Grd	Course	Cr	Grd
EDU 397 – K-8 Language Arts Methods	3		EDU 495 – Student Teaching	12	
EDU 397 – K-8 Math Methods	3				
EDU 397R – K-8 Social Studies Methods	3				
EDU 438 – Lit Assessment, Diagnosis & Instruction	3				
EDU 395 – Practicum II (Classroom)	3				
Submit application for Student Teaching & Graduation			Total # of Credits:		

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"/>		
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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