General Science Broadfield Option

The General Science Broadfield program prepares students to be licensed to teach all middle and senior high school science areas in the state of Montana. See the Teacher Education Program (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/#teachereducationrequirementstext) page for entrance requirements.

Secondary level endorsement will cover grades five through twelve for all applicants graduating from approved programs. Practicum and student teaching experiences are coordinated through the Office of Field Placement & Licensure (http://www.montana.edu/fieldplacement/).

Program Sequence

Freshman Year	Credits	
	Fall	Spring
EDU 101US - Teaching and Learning	3	
HDFS 101IS - Indiv and Fam Dev: Lifespan	3	
BIOB 170IN - Principles of Biological Diversity	4	
M 161Q - Survey of Calculus	4	
W Core	3	
EDU 223IS - Educ Psych and Adolescent Dev or EDU 222IS - Educ Psych & Child Development		3
CHMY 141 - College Chemistry I & CHMY 142 - College Chemistry I Lab		4
PHSX 205 - College Physics I		4
IA/RA Core		3
Elective		3
Year Total:	17	17

Sophomore Year	Credits	
	Fall	Spring
EDU 370 - Integrating Tech into Educ	3	
BIOB 160 - Principles of Living Systems	4	
CHMY 143 - College Chemistry II & CHMY 144 - College Chemistry II Lab	4	
PHSX 207 - College Physics II	4	
EDU 211D - Multicultural Education		3
BIOE 370 - General Ecology		3
CHMY 211 - Elements of Organic Chemistry & CHMY 212 - Elements of Organic Chemistry Lab		5
ERTH 101IN - Earth System Sciences		4
Elective		3
Year Total:	15	18

Junior Year	Credits	
	Fall	Spring
EDSP 306 - Exceptional Learners	3	
BIOB 375 - General Genetics	3	
BIOO 412 - Animal Physiology or BIOO 433 - Plant Physiology	3	
Earth Science Elective - Choose one of the following:	4	
ERTH 212RN - Yellowstone: Scientific Lab		
ERTH 303 - Weather and Climate		
GEO 211 - Earth History and Evolution		
GEO 315 - Structural Geology[3]		
Elective	3	
EDU 347 - Managing the Learning Environment for K-12/Secondary		2
EDU 382 - Assessmt, Curric, Instructn		3
BIOM 103IN - Unseen Universe: Microbes or BIOM 360 - General Microbiology		3-5
BIOB 420 - Evolution		3
ERTH 303 - Weather and Climate or GEO 211 - Earth History and Evolution		3
IH/RH Core		3-4
Year Total:	16	17

Senior Year	Credits	
	Fall	Spring
EDP 304 - Practicum: 5-12/K-12	2	
EDP 305 - Practicum Lab: 5-12/K-12	1	
EDM 403 - Methods: 5-12 Science	3	
EDU 494 - Seminar: Lab Safety	1	
ASTR 371 - Solar System Astronomy	4	
History of Science - Choose one of the following:	3	
HSTA 412IH - American Thought and Culture		
HSTA 470 - American Environmental History		
HSTR 205CS - The World Environment		
HSTR 207CS - Sci and Tech in World History		
HSTR 208RH - Sci,Envir,Tech,Soc: Common Exp		
HSTR 282CS - Darwinian Revolution		
HSTR 417 - Early Modern Science		
HSTR 419 - Modern Science		
HSTR 484 - World Environmental History		
RLST 217IH - Religion, Sci & Environment		
Elective	2	
EDU 495R - Student Teaching		12
Year Total:	16	12
Total Program Credits:		**128**

A minimum of 128 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above.

Note: While we recommend this sequence, there will be some variance, especially between courses taken by the end of the junior year and first-semester senior year.