

INTERNATIONAL FIELD GEOSCIENCES DUAL

Bachelor of Science - International Field Geos Dual

College Humanities & Sciences

Degree Specific Credits: 100

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

Note: This degree is designed specifically for students who seek to combine a rigorous education in the Geosciences with a yearlong international Geosciences experience and an emphasis on field-based learning. It requires attending classes and living overseas. For students who satisfy all degree requirements, a B.S. degree in International Field Geosciences will be awarded by The University of Montana and a second B.S. degree in International Field Geosciences will be awarded by the Potsdam University. The degree requirements specified below pertain both to UM-based and Potsdam-based students seeking their UM diploma. Potsdam-based students are eligible to satisfy any of the following specific requirements through credits that are transferred from Potsdam and approved as equivalent by the UM Geosciences undergraduate advisors.

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.edu/academics/general-education-requirements>) of the catalog.

Summary

Lower Division Core	12
Upper Division Core	8
Degree Electives	17
Physics	10
Chemistry	8-10
Math	7-8
Computer Science	3-4
Upper Division Writing	4
Languages	8
Overseas Coursework	27-30
Total Hours	104-111

Lower Division Core

Rule: Must complete all of the following courses

GEO 101N	Introduction to Physical Geology	3
GEO 102N	Introduction to Physical Geology Lab	1
GEO 211	Earth's History and Evolution	4
GEO 225	Earth Materials	4
Total Hours		12

Minimum Required Grade: C-

Upper Division Core

Rule: Must complete all of the following courses

GEO 315	Structural Geology	4
GEO 318	Climate System Dynamics	4
Total Hours		8

Minimum Required Grade: C-

Degree Electives

Select 17 credits from the following: 17

GEO 305	Igneous & Metamorph Petrology	
GEO 309	Sedimentation/Stratigraphy	
GEO 311	Paleobiology	
GEO 320	Global Water	
GEO 327	Geochemistry	
GEO 420	Hydrogeology	
GEO 433	Global Tectonics	
GEO 460	Process Geomorphology	
GEO 491	Special Topics	
Total Hours		17

Minimum Required Grade: C-

Physics

Rule: Must complete 1 of the following sequences

10 Total Credits Required

Select one of the following sequences: 10

Option 1:		
PHSX 205N	College Physics I	
PHSX 206N	College Physics I Laboratory	
PHSX 207N	College Physics II	
PHSX 208N	College Physics II Laboratory	
Option 2 with Calculus:		
PHSX 215N	Fund of Physics w/Calc I	
PHSX 216N	Physics Laboratory I w/Calc	
PHSX 217N	Fund of Physics w/Calc II	
PHSX 218N	Physics Laboratory II w/Calc	
Total Hours		10

Minimum Required Grade: C-

Chemistry

Rule: Must complete 1 of the following subcategories

8-10 Total Credits Required

Chemistry Option 1		8
CHMY 121N	Introduction to General Chemistry	

CHMY 123 & CHMY 124	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Lab	
Chemistry Option 2		10
CHMY 141N & CHMY 142N	College Chemistry I and College Chemistry I Lab	
CHMY 143N & CHMY 144N	College Chemistry II and College Chemistry II Lab	

Minimum Required Grade: C-

Math

Rule: Must complete 1 of the following subcategories

7-8 Total Credits Required

Math Option 1		7
M 162	Applied Calculus	
M 263	Applied Differential Equations (Applied Differential Equations)	
Math Option 2		8
M 171	Calculus I	
M 172	Calculus II	

Minimum Required Grade: C-

Computer Science

Select one of the following:		3-4
CSCI 250	Computer Mdlng/Science Majors	
GPHY 284	Intro to GIS and Cartography	
STAT 216	Introduction to Statistics	
Total Hours		3-4

Minimum Required Grade: C-

Upper Division Writing

Rule: Must complete the following course

Note: This course is recommended to complete the upper division writing requirement in Geosciences but students may also select from the university-approved list of upper division writing courses to fulfill this requirement.

GEO 320	Global Water	4
Total Hours		4

Minimum Required Grade: C-

Languages

Rule: UM outgoing students must complete the following language sequence (the "test out provision" applies as administered by the Department of Modern and Classical Languages and Literatures).

GRMN 101	Elementary German I	4
GRMN 102	Elementary German II	4
Total Hours		8

Minimum Required Grade: C-

Overseas Coursework

Rule: Must complete the following courses and field work at Potsdam University

Note: In addition to Geosciences coursework completed at UM students must complete the following:

- Selection of one field course run by Potsdam University listed below
 - BP 15 (Field Course - France)
 - BW01 (Field Course - Norway)
 - BW02 (field Course - Alps)
- Any 4 of the following courses offered by Potsdam University
 - Regional Geology
 - Paleoclimate @ Quaternary Geology
 - Analysis of Geologic Maps
 - Analytic Geochemistry
 - Natural Hazards
 - Tectonophysics & Rheology
 - Seismology
 - Seismics
 - Geoelectrics
 - Sedimentary Systems & Stratigraphic Geomorphology
 - Tectonics and Geodynamics
- 2 additional cognate science courses to be taken at Potsdam University

Minimum Required Grade: C-

27-30 Total Credits Required