

INTERNATIONAL FIELD GEOSCIENCES DUAL B.S.

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 University of Potsdam. 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 the University of Potsdam and approved as equivalent by the UM Geosciences undergraduate advisors.

Bachelor of Science - International Field Geosciences Dual

General Education Requirements

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

Summary

Code	Title	Hours
	Lower-Division Core	8
	Upper-Division Core	12
	Degree Electives	17
	Physics	10
	Chemistry	8-10
	Mathematics	7-8
	Computer Science	3-4
	Language Requirement	8
	Overseas Coursework	27-30
	Total Hours	100-107

Degree Specific Credits: 100-107

Required Cumulative GPA: 2.0

Lower-Division Core

Code	Title	Hours
Complete all of the following courses:		
GEO 101N	Introduction to Physical Geology	3
GEO 102N	Introduction to Physical Geology Lab	1
GEO 201	Geologic Evolution of North America	4
	Total Hours	8

Minimum Required Grade: C-

Upper-Division Core

Code	Title	Hours
Complete all of the following courses:		
GEO 302	Mineralogy and Optical Mineralogy	4
GEO 315	Structural Geology	4
GEO 318	Earth's Changing Climate	3

Total Hours 11

Minimum Required Grade: C-

Degree Electives

Code	Title	Hours
Complete 17 credits of the following courses:		
GEO 305	Igneous & Metamorph Petrology	4
GEO 309	Sedimentation/Stratigraphy	4
GEO 320	Global Water	
GEO 327	Geochemistry	
GEO 420	Hydrogeology	
GEO 433	Global Tectonics	
GEO 460	Process Geomorphology	
GEO 491	Special Topics	

Total Hours 21

Minimum Required Grade: C-

Physics

Code	Title	Hours
Complete one of the following Physics sequences:		
Algebra- and Trigonometry-based Physics:		
PHSX 205N	College Physics I	
& PHSX 206N	and College Physics I Laboratory	
PHSX 207N	College Physics II	
& PHSX 208N	and College Physics II Laboratory	

Calculus-based Physics:

PHSX 215N	Fundamentals of Physics with Calculus I	
& PHSX 216N	and Physics Laboratory I with Calculus	
PHSX 217N	Fundamentals of Physics with Calculus II	
& PHSX 218N	and Physics Laboratory II with Calculus	

Total Hours 10

Minimum Required Grade: C-

Chemistry

Code	Title	Hours
Complete one of the following courses:		
CHMY 121N	Introduction to General Chemistry	4-5
CHMY 141N	College Chemistry I	
& CHMY 142N	and College Chemistry I Lab	

Total Hours 4-5

Minimum Required Grade: C-

Mathematics

Code	Title	Hours
Complete all of the following courses:		
M 171	Calculus I	4
M 172	Calculus II	4
Total Hours		8

Minimum Required Grade: C-

Complete 2 additional cognate science courses at the University of Potsdam

Total Hours **27-30**

Minimum Required Grade: C-

Computer Science

Code	Title	Hours
Complete one of the following courses:		
GPHY 284	Intro to GIS and Cartography	3-4
STAT 216	Introduction to Statistics	
Total Hours		3-4

Minimum Required Grade: C-

Language Requirement

Rule: UM outgoing students must complete the following language sequence. The "test out provision" applies as administered by the Department of World Languages and Cultures).

Code	Title	Hours
Complete all of the following courses:		
GRMN 101	Elementary German I	4
GRMN 102	Elementary German II	4
Total Hours		8

Minimum Required Grade: C-

Overseas Coursework

Code	Title	Hours
Complete the following courses and field work at the University of Potsdam:		
Complete one of the following field courses run by the University of Potsdam:		

BP 15 (Field Course - France)

BW01 (Field Course - Norway)

BW02 (field Course - Alps)

Complete 4 of the following courses offered by the University of Potsdam:

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