

INTERNATIONAL FIELD GEOSCIENCES DUAL

Bachelor of Science - International Field Geosciences Dual

College of Humanities & Sciences

Degree Specific Credits: 100-107

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

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 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.

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

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 211	Earth's History and Evolution	4

GEO 225	Earth Materials	4
Total Hours		12

Minimum Required Grade: C-

Upper-Division Core

Code	Title	Hours
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

Code	Title	Hours
Complete 17 credits of the following courses:		
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

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	Fund of Physics w/Calc I	
& PHSX 216N	and Physics Laboratory I w/Calc	
PHSX 217N	Fund of Physics w/Calc II	
& PHSX 218N	and Physics Laboratory II w/Calc	
Total Hours		10

Minimum Required Grade: C-

Chemistry

Code	Title	Hours
Complete one of the following Chemistry sequences:		
Chemistry Option 1		
CHMY 121N	Introduction to General Chemistry	

CHMY 123 & CHMY 124	Introduction to Organic and Biochemistry and Introduction to Organic and Biochemistry Lab
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Chemistry Option 2

CHMY 141N & CHMY 142N	College Chemistry I and College Chemistry I Lab
CHMY 143N & CHMY 144N	College Chemistry II and College Chemistry II Lab

Total Hours	10
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Minimum Required Grade: C-

Math

Code	Title	Hours
Complete one of the following Math sequences:		7-8

Math Option 1

M 162	Applied Calculus
M 263	Applied Differential Equations

Math Option 2

M 171	Calculus I
M 172	Calculus II

Total Hours	7-8
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Minimum Required Grade: C-

Computer Science

Code	Title	Hours
Complete one of the following courses:		3-4

GPHY 284	Intro to GIS and Cartography
STAT 216	Introduction to Statistics

Total Hours	3-4
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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 Modern and Classical Languages and Literatures).

Code	Title	Hours
Complete all of the following courses:		

GRMN 101	Elementary German I	4
GRMN 102	Elementary German II	4

Total Hours	8
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Minimum Required Grade: C-

Overseas Coursework

Code	Title	Hours
Complete the following courses and field work at the University of Potsdam:		27-30

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

Complete 2 additional cognate science courses at the University of Potsdam

Total Hours	27-30
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Minimum Required Grade: C-