INTERNATIONAL FIELD GEOSCIENCES JOINT

Bachelor of Science - International Field Geosciences Joint

College of Humanities & Sciences

Degree Specific Credits: 108-115

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. Most of the course work completed during the year abroad will take place at University College Cork (UCC) in Ireland. For students who satisfy all degree requirements, a joint B.S. degree in International Field Geosciences will be awarded by The University of Montana and the University College Cork.

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

Title	Hours		
Lower-Division Core			
re	12		
	15		
Physics			
	8-10		
	7-8		
Computer Science			
Language Requirement			
vork	33-36		
	108-115		
	Title re re vork		

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

Rule: Complete all of the following subcategories. 12 total credits required.

Subcategory 1

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-

Subcategory 2	2	
Code	Title	Hours
Complete one	of the following courses:	4
GEO 309	Sedimentation/Stratigraphy	
GEO 443	Principles of Sedimentary Petrology	
Total Hours		4

Minimum Required Grade: C-

Degree Electives

Code	Title	Hours
Complete 15 cred	its of the following courses:	15
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 443	Principles of Sedimentary Petrology	
GEO 460	Process Geomorphology	
GEO 491	Special Topics	
Total Hours		15

Minimum Required Grade: C-

Physics

C	ode	Title	Hours
C	omplete one of t	he following Physics sequences:	10
A	gebra- and Trig	onometry-based Physics:	
	PHSX 205N & PHSX 206N	College Physics I and College Physics I Laboratory	
	PHSX 207N & PHSX 208N	College Physics II and College Physics II Laboratory	
Ca	alculus-based P	hysics:	
	PHSX 215N & PHSX 216N	Fund of Physics w/Calc I and Physics Laboratory I w/Calc	

PHSX 217N	Fund of Physics w/Calc II		GRMN 101	Elementary German I	
& PHSX 218N	and Physics Laboratory II w/Calc		GRMN 102	Elementary German II	
Total Hours		10	Irish		
Minimum Boquiro	d Crada: C		IRSH 101	Elementary Irish	
Minimum Require	d Grade. C-		IRSH 102	Elementary Irish II	
Chamiatay			Total Hours		8
Chemistry			Minimum Requi	red Grade: C-	
Code		Hours			
Complete one of t	the following Chemistry sequences:	8-10	0		
Chemistry Option	I		Overseas Co	ursework	
CHMY 121N	Introduction to General Chemistry		Code	Title	Hours
& CHMY 123 & CHMY 124	and Introduction to Organic and Biochemistry Biochemistry Lab		In addition to Ge complete the fo College of Cork	eosciences coursework completed at UM, llowing courses and field work at University and the University of Potsdam:	33-36
Chemistry Option	2		Complete 1 of t	ne following formal field course modules run	
CHMY 141N	College Chemistry I		by University Co	ollege Cork:	
& CHMY 142N	and College Chemistry I Lab		GL 2016 (Eas	ter Field Course - Dingle Peninsula)	
CHMY 143N	College Chemistry II		GL 3019 (Eas	ter Field Course - Western Scotland)	
& CHMY 144N	and College Chemistry II Lab		ER 3002 (Eas	ter Field Course - North Clare)	
Total Hours		8-10	GL 4008 (Eas	ter Field Course - Central Greece)	
Minimum Required Grade: C-			Another equivation approved apr	valent-level field course run by UCC and iori by their UCC and UM advisors	
			While in residen	ce at Cork, complete any 9 of the following	
Math			courses in cons	ultation with UCC and UM advisors:	
Code	Title	Hours	Sed Processe	es and Petrology	
Complete one of t	the following Math sequences:	7-8	Igneous and	MM Petrology	
Math Option 1			Invertebrate	Paleontology & Evolution	
M 162	Applied Calculus		Plate Tectoni	cs & Global Geophysics	
M 263	Applied Differential Equations (Applied		Igneous Petro	ogenesis & Geochemistry	
Math Ontion 0	Differential Equations)		Advanced St	an & Geochronology	
M 171	Coloulus		Sodimontory	Environmente	
N 172			Stratigraphy	8 Goologio Mano	
Tetel 11.		7.0	Environment	al Geology	
Total Hours		7-8	Terr Ecosyste	an Scology ams Through Time	
Minimum Require	d Grade: C-		Micropaleont	rology & Palypology	
			Petroleum Ge	eology & Pasin Analysis	
Computer Sci	anco		Applied Geor	hysics & Computer Applications	
			Advanced Igr	neous Petrology	
	litie	Hours	Hydrogeolog	v	
Complete one of t	the following courses:	3-4	Complete 1 form	, nal upper-level Geosciences course at the	
GPHY 284	Intro to GIS and Cartography		University of Po	tsdam. Recommended are courses that focus	
STAT 210			on computer-ba	sed visualization or geoscience data using	
Iotal Hours		3-4	GIS or other vise	ualization platforms.	
Minimum Require	d Grade: C-		Total Hours		33-36
			Minimum Requi	red Grade: C-	
Language Req	luirement				

Note: The "test out provision" applies as administered by the Department of Modern and Classical Languages and Literature.

Code	Title	Hours
Complete on	e of the following language sequences:	8
German		