

**BACHELOR OF SCIENCE IN GEOPHYSICS**  
**UNOFFICIAL**

**CATALOG 133**

Fall		(Th-Pr)	Cr	Spring		(Th-Pr)	Cr
Freshman Year							
CHEM 107	Gen. Chemistry for Engin. Students	(3-0)	3		U.S. history or political science elective <sup>2</sup>		3
CHEM 117	Gen. Chemistry Lab	(0-3)	1	GEOL 106	Historical Geology	(3-3)	4
GEOL 104	Physical Geology	(3-3)	4				
MATH 151	Engineering Math. I	(3-2)	4	MATH 152	Engineering Math. II	(3-2)	4
ENGL 104	Comp. and Rhetoric	(3-0)	3		Communications Elective <sup>1</sup>		3
			15				14
Sophomore Year							
GEOL 203	Mineralogy	(2-6)	4	GEOL 302	Introduction to Petrology	(3-3)	4
GEOP 341	Introduction to Global Geophysics	(3-0)	3	GEOL 309	Introduction to Geologic Field Methods	(1-6)	3
MATH 251	Engineering Math. III	(3-0)	3	MATH 308	Differential Equations	(3-0)	3
PHYS 218	Mechanics	(3-3)	4	PHYS 219	Electricity	(3-3)	4
*KINE 198	Health and Fitness Activity	(0-2)	1	*KINE 199	Required Physical Activity		1
			15				15
Junior Year							
GEOP 435	Principles of Geophysical Exploration	(3-3)	4	GEOP 413	Near-Surface Geophysics	(3-0)	3
PHYS 221	Optics and Thermal Physics	(3-0)	3	GEOL 312	Structural Geology and Tectonics	(3-3)	4
	U.S. history or political science elective <sup>1</sup>		3	MATH 311	Topics in Applied Math	(3-0)	3
	Computer science <sup>2</sup>		3		U.S. history or political science elective <sup>1</sup>		3
	Visual and performing arts elective <sup>3</sup>		3		Social and behavioral sciences elective <sup>3</sup>		3
				GEOL 311	Principles of Geological Writing	(1-0)	1
			16				17
Senior Year							
GEOP 421	Petroleum Seismology I	(3-3)	4	GEOP 470	Computational Methods	(3-0)	3
MATH 412	Theory of PDES	(3-0)	3		Technical electives <sup>4</sup>		8
	Technical elective <sup>4</sup>		4		U.S. history or political science elective <sup>1</sup>		3
	Humanities elective <sup>3</sup>		3				
			14				14
Total Credits							120

**Notes**

- 1 These electives must be selected from the approved list of courses satisfying the University Core Curriculum.
- 2 Computer science course must entail programming with a high-level language.
- 3 These electives must be selected from the approved list of courses satisfying the University Core Curriculum AND 6 hours must be selected from courses that also satisfy the International and Cultural diversity requirement.
- 4 Any science, math or engineering course that augments the degree with the approval of the advisor.

\* See page 21 of catalog 133.

**ALL STUDENTS MUST FULFILL TWO WRITING INTENSIVE COURSES  
WITHIN THEIR MAJOR**



