

# Geology B.S. Degree

## 2008/2009 - 2013/2014 Curriculum

### Environmental Science Concentration

#### FRESHMAN YEAR

___ CH 1010 General Chemistry	4	___ CH 1020 General Chemistry	4
___ ENGL 1030 Accelerated Composition	3	___ GEOL 1020 Earth History	4
___ GEOL 1010 Physical Geology	3	___ MTHS 1080 Calculus of One Variable II	4
___ GEOL 1030 Physical Geology Lab	1	___ A&H/SS Reqt <sup>1</sup> _____	3
___ MTHS 1060 Calculus of One Variable I	4		
	15		15

#### SOPHOMORE YEAR

___ BIOL 1030 General Biology I	3	___ BIOL 1040 General Biology II	3
___ BIOL 1050 General Biology Lab I	1	___ BIOL 1060 General Biology Lab II	1
___ GEOL 2050 Mineralogy and Intro. Petrology	3	___ GEOL 2120 Geoanalysis II <sup>2</sup>	4
___ GEOL 2070 Mineral. And Intro. Petrology Lab	1	___ GEOL 2920 Introduction to Research II	1
___ GEOL 2110 Geoanalysis I	4	___ GEOL 3000 Environmental Geology	3
___ GEOL 2910 Introduction to Research I	1	___ PHYS 1220 Physics with Calculus I	3
___ A&H/SS Reqt <sup>1</sup> _____	3		
	16		15

#### JUNIOR YEAR

___ ENSP 2000 Intro. To Environmental Science	3	___ GEOL 3180 Introduction to Geochemistry	3
___ GEOL 3910 Research Methods I	2	___ GEOL 3920 Research Methods II	2
___ ENV SCI REQT: _____	3	___ ENV SCI REQT: _____	3
___ ENV SCI REQT: _____	3	___ ENV SCI REQT: _____	3
___ ENV SCI REQT: _____	3	___ ENV SCI REQT: _____	3
___ A&H/SS Reqt <sup>1</sup> _____	3	___ A&H/SS Reqt <sup>1</sup> _____	3
	17		17

#### SUMMER FIELD EXPERIENCE

___ FIELD EXPERIENCE: _____	3		
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#### SENIOR YEAR

___ ENSP 4000 Studies in Environmental Science	3	___ CH 223 Organic Chemistry or	3
___ GEOL 4080 Geohydrology	3	___ CH 4130 Chemistry of Aqueous Systems	
___ GEOL 4910 Research Synthesis I	3	___ GEOL 4920 Research Synthesis II	3
___ ENV SCI REQT: _____	3	___ ENV SCI REQT: _____	3
		___ ENV SCI REQT: _____	3
	12		12

#### 122 Total Semester Hours

1 See General Education Requirements. Three of these credits must also satisfy the Cross Cultural Awareness Requirement

2 MTHS 2060 and 2080 or 3010 or EXST 3010 may be substituted

3 Select from department approved list. At least 3 credit hours must be from geology courses

4 Field course in geology, ecology or related area. Must be at least 3 credits. Students desiring to become registered professional geologists should take a 6-credit geology field course

STS Requirement: \_\_\_\_\_

CCA Requirement: \_\_\_\_\_

Total # of General Education Hours Completed: \_\_\_\_\_

#### ENVIRONMENTAL SCIENCE REQUIREMENT OPTIONS - Common Courses - See Advisor for full listing (Pick 9 courses/ 27 hours)

CSEN 485 Environmental Soil Chemistry	3	CSEN 2020 Soils	4
GEOL 4590 Biogeochemistry	3	FNR 2040 Soil Information Systems	4
PHYS 2400 Physics of the Weather	3	GEOL 3020 Structural Geology	4
PHYS 2450 Physics of Global Climate Change	3	GEOL 3130 Sedimentology and Stratigraphy	4
BE 3220 Small Watershed Hydrology and Sedimentology	3	GEOL 4210 GIS Applications in Geology	3
4000-level EES courses	3	GEOL 4090 Environmental and Exploration Geophysics	4
BIOL 4410 Ecology	3	GEOL 4050 Surficial Processes	4
BIOL 4100 Limnology	3	GEOL 3700 Western US Field Study	3
MICR 3050 General Microbiology	4	APEC 257 Natural Resources, Environment and Economics	3
MICR 4020 Environmental Microbiology	3	BIOL 4430 Freshwater Ecology	3
ENR/BIOL 4130 Restoration Ecology	3	AGRI/ENSP 3150 Environment and Agriculture	3