

# Bachelor of Science in Energy & Earth Resources -- 120 Credits

JENER-BS (RG 5988)  
Effective August 2016

## GENERAL EDUCATION REQUIREMENTS

### REQUIRED COURSES (RG 6813)

Foundational Courses	CR	Satisfied/Term
Engcmp 0003 or 0005	3	
Engcmp 0004 or 0006	3	
CommRc 0052 Public Speaking	3	
<b>Basic Algebra or Placement Test</b>		
Math 0001 Algebra 1	3	
<b>Quantitative Reasoning (QR) - 1 Course</b>		
<i>Note - a student cannot test out of their QR requirement.</i>		
	3	

### FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.

	CR	Satisfied/Term

### WORLDS OF KNOWLEDGE (RG 6825)

Aesthetic and Creative Expression (RQ 3148)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Societies & Civics (RQ 3150)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Satisfied/Term
Chem	0112	Gen. Chem 2	3	

Global History & Culture (RQ 3149)				
Subject	Number	Course Title	CR	Satisfied/Term
			3	
			3	

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
Chem	0111	Gen Chem 1	3	

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from any World.

>The minimum number of courses taken in the Worlds must be 10.

>The Follow-Up courses may repeat a subject previously taken in a World.

>A student cannot use a major required Subject course in one of the Worlds.

>For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.

>Students cannot use a course to count both in their QR requirement and one of the Worlds.

>Students can choose QR and Worlds of Knowledge courses from published course lists.

## MAJOR REQUIREMENTS (RG 5988)

(RQ 3570)		
Required Geography Courses	CR	Satisfied/Term
Geol 0015 Physical Geology	4	
Geol 0061 Historical Geology	4	
Geol 1157 Geol Field Methods	4	
<b>Requirement Satisfied</b>	<b>12</b>	

(RQ 3572)		
Required Geography Courses	CR	Satisfied/Term
Geog 0420 Cartography	3	
Geog 1440 GIS	3	
<b>Requirement Satisfied</b>	<b>6</b>	

(RQ 3574)		
Real World Experience Courses	CR	Satisfied/Term
Geol 1109 Report Writing	3	
Geol 1170 Internship	4	
<b>Requirement Satisfied</b>	<b>7</b>	

(RQ 3571)		
Required Chemistry Courses	CR	Satisfied/Term
Chem 0111 General Chemistry 1	3	
Chem 0112 General Chemistry 2	3	
Chem 0113 General Chemistry 1 Lab	1	
Chem 0114 General Chemistry 2 Lab	1	
<b>Requirement Satisfied</b>	<b>8</b>	

(RQ 3573)		
Required Math Course	CR	Satisfied/Term
Math 0221 Analytic Geom & Calc 1	4	
<b>Requirement Satisfied</b>	<b>4</b>	

### Concentrations (RQ 3575)

(RQL 010-100)		
Energy Concentration		
Required Classes	CR	Satisfied/Term
Geol 1004 Igneous & Metm Petr & Petgrphy	4	
Geol 1000 Mineralogy & Opt Mineralogy	4	
Geol 1005 Sediment. & Stratigraphy	4	
Geol 1110 Structural Geology	4	
Geol 1406 Exploration Geophysics	4	
Geol 0220 Fossil Fuels	3	
Math 0231 Analytic Geom. & Calc 2	4	
Phys 0140 Intro to Phys 1		
Or Phys 0150 Phys 1	4	
Phys 0141 Exp Phys 1 Lab		
Or Phys 0151 Phys 1 Lab	1	
MET 1144 - Energy	3	
Or Geol 1061 Geomorphology	4	
Or Geol 1106 Hydrogeology	4	
Or Geol 1139 Geology of Soils	4	
<b>Requirement Satisfied</b>	<b>35-36</b>	

(RQL 110-180)		
Environmental Concentration		
Required Classes	CR	Satisfied/Term
Geol 1000 Mineralogy & Opt Mineralogy	4	
Geol 1106 Hydrogeology	4	
Geol 1061 Geomorphology	4	
Geol 1139 Geology of Soils	4	
Chem 0230 Fund of Organic Chem	4	
Chem 0235 Fund of Org Chem Lab	1	
Biol 0110 General Biology 1	3	
Biol 0111 General Biology 1 Lab	1	
Biol 0120 General Biology 2	3	
Biol 0121 General Biology 2 Lab	1	
Biol 1515 General Ecology	3	
Biol 1615 General Ecology Lab	1	
MET 1144 - Energy	3	
Or Geol 1004 Igneous & Metm Petr & Petgrphy	4	
Or Geol 1005 Sediment. & Stratigraphy	4	
Or Geol 1406 Solid Earth Geophysics	4	
<b>Requirement Satisfied</b>	<b>36-37</b>	

MGPA (RQ 0852)  
Major 50% (RQ 2876)

### IMPORTANT INFORMATION:

This sheet is an unofficial representation of the proposed major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Updated 4/17/19