

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

JENER-BS (RG 5988)  
Effective August 2019

## GENERAL EDUCATION REQUIREMENTS

### REQUIRED COURSES (RG 6813)

Foundational Courses		CR	Satisfied/Term
Engcmp 0005	Composition I	3	
Engcmp 0006	Composition II	3	
CommRc 0052	Public Speaking	3	
Basic Algebra or Placement Test			
Math 0001	Algebra 1	3	
Quantitative Reasoning (QR) - 1 Course			
<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	

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

Societies & Civics (RQ 3150)				
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	

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

Required Geology Courses (RQ 3570)		CR	Satisfied/Term
Geol 0015	Physical Geology	4	
Geol 0200	Geodynamics		
Or Geol 0061	Historical Geology	4	
Geol 1000	Mineralogy	4	
Geol 1110	Structural Geology	4	
Geol 1157	Geol Field Methods	4	
<b>Requirement Satisfied</b>		<b>20</b>	

Required Chemistry Courses (RQ 3571)		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>	

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

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

Real World Experience Courses (RQ 3574)		CR	Satisfied/Term
Geol 1109	Report Writing	4	
Geol 1170	Internship	4	
<b>Requirement Satisfied</b>		<b>8</b>	

### Energy & Earth Resources Concentrations

Complete one of the following Energy & Earth Resources concentrations.

(RQL 3904, 0010-0080)

Energy Concentration		CR	Satisfied/Term
Required Classes			
Geol 0220	Fossil Fuels		
Or Geol 1090	Geochemistry	3	
Geol 1004	Ig. & Metm Petr & Petrgrphy	4	
Geol 1005	Sediment. & Stratigraphy	4	
Geol 1406	Solid-Earth Geophysics	4	
Math 0231	Analytic Geom. & Calc 2	4	
ME 1056	Energy	3	
Or Geol 1061	Geomorphology	4	
Or Geol 1106	Hydrogeology	4	
Or Geol 1139	Geology of Soils	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	
<b>Requirement Satisfied</b>		<b>28</b>	

(RQL 3904, 110-140)

Environmental Concentration		CR	Satisfied/Term
Required Classes			
Geol 1004	Igneous & Metm. Petrology	4	
Or Geol 1005	Sediment. & Stratigraphy	4	
Or Geol 1406	Solid-Earth Geophysics	4	
Geol 1061	Geomorphology	4	
Geol 1106	Hydrogeology	4	
Geol 1139	Geology of Soils	4	
Select 12 credits from the following courses			
Biol 0083	Human Ecology	3	
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 0340	General Ecology	3	
Biol 0341	General Ecology Lab	1	
Ce 1503	Intro to Env Engineering	3	
Chem 0230	Fund of Organic Chem	4	
Chem 0235	Fund of Org Chem Lab	1	
Chem 1351	Green Chemistry and Sus	1	
Geog 1200	Environmental Planning	3	
Geog 1230	Resource Management	3	
Geol 1202	Intro to Invert Paleo	4	
PS 1245	Environ. Politics and Policy	3	
Soc 1113	Environ. Sociology	3	
<b>Requirement Satisfied</b>		<b>28</b>	

MGPA (RQ 2818)

Major 50% (RQ 2879)

Updated 03/25/24

### 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.