

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 0003 or 0005	3	
Engcmp 0004 or 0006	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	
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 Geology Courses	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	
Requirement Satisfied	20	

(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	
Requirement Satisfied	8	

(RQ 3572)

Required Geography Courses	CR	Satisfied/Term
Geog 0420 Cartography	3	
Geog 1440 GIS	3	
Requirement Satisfied	6	

(RQ 3573)

Required Math Course	CR	Satisfied/Term
Math 0221 Analytic Geom & Calc 1	4	
Requirement Satisfied	4	

(RQ 3574)

Real World Experience Courses	CR	Satisfied/Term
Geol 1109 Report Writing	4	
Geol 1170 Internship	4	
Requirement Satisfied	8	

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 Igneous & Metm Petr & Petgrphy	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	
Requirement Satisfied	28	

(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 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	
Requirement Satisfied	28	

MGPA (RQ 2818)

Major 50% (RQ 2879)

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 2/20/20