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				
Note - a student cannot test out of their QR requirement.				
		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 concentations.

(RQL 3904, 0010-0080)

Energy Concentration Required Classes	CR	Satisfied/Term	
Geol 0220 Fossil Fuels			
Or Geol 1090 Geochemistry	3		
Geol 1004 Ig. & 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 Required Classes	CR	Satisfied/Term	
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		
Requirement Satisfied	**28**		

MGPA (RQ 2818)
Major 50% (RQ 2879)

Updated 04/11/23

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.