

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 | |
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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 | | | |
|------------------------------|----------------------------|----------------|--|
| 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)

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 10/06/21