

# ACADEMIC MAP

## Energy Resources Track Geology, Bachelor of Science



First Year			Third Year		
<b>Fall</b>			<b>Fall</b>		
GEOL 1403	Physical Geology	4	GEOL 4416	Introduction to Geochemistry	4
MATH 2413	Calculus I	4	GEOL/Science Elective		4
UNIV 1101	University Seminar I	1	POLS 2306	State and Local Government	3
ENGL 1301	Writing and Rhetoric I	3	American History Core Requirement		3
or ENGL 1302	or Writing and Rhetoric II				
		<b>Hours</b>			<b>14</b>
COMM 1311	Foundation of Communication	3	<b>Spring</b>		
		<b>Hours</b>	GEOL 3414	Igneous and Metamorphic Petrology	4
		<b>15</b>	ARTS 1301	Art and Society	3
<b>Spring</b>			Language, Philosophy & Culture Core Requirement		
GEOL 1404	Historical Geology	4	GEOL/Science Elective		4
CHEM 1411	General Chemistry I	4			<b>Hours</b>
PHYS 1401	General Physics I	4			<b>14</b>
UNIV 1102	University Seminar II	1	<b>Fourth Year</b>		
GEOL 2102	Undergraduate Seminar in Geology-Careers in the Geosciences	1	<b>Fall</b>		
		<b>Hours</b>	GEOL 4411	Sedimentation and Stratigraphy	4
		<b>14</b>	GEOL 4421	Structural Geology	4
<b>Second Year</b>			GEOL 4436	Introduction to Petroleum Geology	4
<b>Fall</b>			Social and Behavioral Sciences Core Requirement		
GEOL 3411	Mineralogy	4			<b>Hours</b>
CHEM 1412	General Chemistry II	4			<b>15</b>
PHYS 1402	General Physics II	4	<b>Spring</b>		
POLS 2305	U.S. Government and Politics	3	GEOL 3326	Introduction to Geological Field Methods	3
		<b>Hours</b>	GEOL 4444	Hydrogeology	4
		<b>15</b>	GEOL 4422	Geophysics	4
<b>Spring</b>			GEOL/Science Elective		4
GEOL 2222	Karst Geology and Paleoclimatology	2			<b>Hours</b>
MATH 3342	Applied Probability and Statistics	3			<b>15</b>
GEOL/Science Elective		4	<b>Summer</b>		
GEOL 2103	Undergraduate Seminar in Geology-Research in the Geosciences	1	GEOL 4650	Field Geology	6
		<b>Hours</b>			<b>Hours</b>
		<b>13</b>			<b>6</b>
American History Core Requirement					<b>Total Hours</b>
					<b>121</b>



# CAREER MAP

## Energy Resource Track - Geology *Bachelor of Science*



The Energy Resource track offers the engineering and geology background for exploration and production of hydrocarbons, gas hydrates and renewable resources such as geothermal energy. Persons interested in geology should have a genuine interest in natural sciences, some inborn curiosity to figure “things” out, and, as in any technical profession, a good portion of perseverance and motivation. Many geologists like the outdoors, but a lot of geosciences is done in the lab, on the computer, on board of a ship, or using remotely operated tools such as satellites and the rovers on planet Mars.

### CONTACT INFORMATION

#### Career Counselor:

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#### Internship Coordinator:

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#### Department Contact:

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### SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Teamwork/Collaboration
- Professionalism/Work Ethic
- Oral/Written Communication
- Leadership
- Digital Technology
- Career Management
- Global/Multicultural Fluency
- Analytical
- Interpersonal skills
- Physical Stamina
- Public Speaking
- Technical Writing

### STUDENT ORGANIZATIONS

- Geology Club
- SACNAS Chapter at TAMU-CC

### ADDITIONAL SOURCES OF INFORMATION

1. American Geosciences Institute
2. American Association of Petroleum Geologists
3. Association of Women Geoscientists
4. American Institute of Professional Geologists
5. Geological Society of America

### CAREER OPTIONS

- Petroleum Geologist
- Petrologist
- Mining Geologist
- Geological Engineer
- Energy Policy Analyst
- Hydrologist
- Geophysicist
- Environmental Geologist
- Renewable Energy Specialist
- Energy Policy Analyst