CATALOG YEAR 2024-2025

ACADEMIC MAP

Geochemistry Track

Geology, Bachelor of Science

TEXAS A&M UNIVERSITY CORPUS CHRISTI

FINISH IN 4

First Year

Fall		Hours
GEOL 1403	Physical Geology	4
MATH 2413	Calculus I	4
UNIV 1101	University Seminar I	1
ENGL 1301 or ENGL 1302	Writing and Rhetoric I or Writing and Rhetoric II	3
COMM 1311	Foundation of Communication	3
	Hours	**15**
Spring		
GEOL 1404	Historical Geology	4
CHEM 1411	General Chemistry I	4
PHYS 1401	General Physics I	4
UNIV 1102	University Seminar II	1
GEOL 2102	Undergraduate Seminar in Geology-Careers in the Geosciences	1
	Hours	**14**

Second Year

Fall		
GEOL 3411	Mineralogy	4
CHEM 1412	General Chemistry II	4
PHYS 1402	General Physics II	4
POLS 2305	U.S. Government and Politics	3
	Hours	**15**
Spring		
GEOL 2222	Karst Geology and Paleoclimatology	2
MATH 3342	Applied Probability and Statistics	3
GEOL/Science Elective		4
GEOL 2103	Undergraduate Seminar in Geology-Research in the Geosciences	1
American History Core Requirement		3
	Hours	**13**

Third Year

Fall		
GEOL 4416	Introduction to Geochemistry	4
CHEM 3418	Instrumental Analysis	4
POLS 2306	State and Local Government	3
American History Core Requirement		3
	Hours	**14**
Spring		
GEOL 3414	Igneous and Metamorphic Petrology	4
ARTS 1301	Art and Society	3
Language, Philosophy & Culture Core Requirement		3
GEOL/Science Elective		4
	Hours	**14**

Fourth Year

Fall		
GEOL 4411	Sedimentation and Stratigraphy	4
GEOL 4421	Structural Geology	4
GEOL/Science Elective		4
Social and Behavioral Sciences Core Requirement		3
	Hours	**15**
Spring		
GEOL 3326	Introduction to Geological Field Methods	3
GEOL 4444	Hydrogeology	4
GEOL 4422	Geophysics	4
GEOL/Science Elective		4
	Hours	**15**
Summer		
GEOL 4650	Field Geology	6
	Hours	**6**
	Total Hours	**121**

This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/

CAREER MAP

Geochemistry - Geology

Bachelor of Science

The Geochemistry track focuses on the relationships between aqueous solutions, equilibrium thermodynamics and kinetics, acid-base equilibria, redox reactions, carbon chemistry, organic compounds, biogeochemical cycles, microbial influences and geological processes. These relationships are applied to understand the complex interactions among the atmospheric, continental and marine environments. 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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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 Texas A&M University - Corpus Christi

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

- Geochemist
- Environmental Geochemist
- Environmental Consultant
- Hydrogeochemist
- Petrologist
- Petroleum Geologist
- Oceanographer
- Hydrologist
- Geophysics
- Mineralogist