

ACADEMIC MAP

Environmental Geology Track Geology, Bachelor of Science



| First Year | | | Third Year | | |
|-----------------------------------|--|---|---|--|---|
| Fall | | | Fall | | |
| GEOL 1403 | Physical Geology | 4 | GEOL 4416 | Introduction to Geochemistry | 4 |
| MATH 2413 | Calculus I | 4 | GEOL 3443 | Environmental Geology | 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 | | |
| or ENGL 1302 | or Writing and Rhetoric II | | Hours | | |
| COMM 1311 | Foundation of Communication | 3 | 14 | | |
| Hours | | | Spring | | |
| 15 | | | GEOL 3414 | Igneous and Metamorphic Petrology | 4 |
| Spring | | | ARTS 1301 | Art and Society | 3 |
| GEOL 1404 | Historical Geology | 4 | Language, Philosophy & Culture Core Requirement | | |
| CHEM 1411 | General Chemistry I | 4 | GEOL/Science Elective | | |
| PHYS 1401 | General Physics I | 4 | Hours | | |
| UNIV 1102 | University Seminar II | 1 | 14 | | |
| GEOL 2102 | Undergraduate Seminar in Geology-Careers in the Geosciences | 1 | Fourth Year | | |
| Hours | | | Fall | | |
| 14 | | | GEOL 4411 | Sedimentation and Stratigraphy | 4 |
| Second Year | | | GEOL 4421 | Structural Geology | 4 |
| Fall | | | GEOL/Science Elective | | |
| GEOL 3411 | Mineralogy | 4 | Social and Behavioral Sciences Core Requirement | | |
| CHEM 1412 | General Chemistry II | 4 | Hours | | |
| PHYS 1402 | General Physics II | 4 | 15 | | |
| POLS 2305 | U.S. Government and Politics | 3 | Spring | | |
| Hours | | | GEOL 3326 | Introduction to Geological Field Methods | 3 |
| 15 | | | GEOL 4444 | Hydrogeology | 4 |
| Spring | | | GEOL 4422 | Geophysics | 4 |
| GEOL 2222 | Karst Geology and Paleoclimatology | 2 | GEOL/Science Elective | | |
| MATH 3342 | Applied Probability and Statistics | 3 | Hours | | |
| GEOL/Science Elective | | 4 | 15 | | |
| GEOL 2103 | Undergraduate Seminar in Geology-Research in the Geosciences | 1 | Summer | | |
| American History Core Requirement | | | GEOL 4650 | Field Geology | 6 |
| 3 | | | Hours | | |
| Hours | | | 6 | | |
| 13 | | | Total Hours | | |
| | | | 121 | | |



CAREER MAP

Environmental Geology Track - Geology *Bachelor of Science*



The Environmental Geology track is designed to provide students with a broad training for carriers in different aspects of the environmental geosciences including: water resources, water quality, and the hydro geochemistry of natural waters. 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

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

- Geologist
- Natural Resource Manager
- Environmental Geologist
- Geological Consultant
- Environmental Consultant
- Water Resources Specialist
- Geohydrologist
- Researcher

STUDENT ORGANIZATIONS

- Geology Club
- SACNAS Chapter at TAMU-CC