



College of Science

Department of Earth and Environmental Sciences

Bachelor of Science in Geology - Engineering

EDUCATE

ENGAGE

EXCEL

Beginning the Journey

- Meet with your advisor and become familiar with requirements for your degree.
- Complete lower-division prerequisite courses
- Learn about different degree options at <https://catalog.uta.edu/science/earth/>

EDUCATE

Trailblazing the Path

- Complete core degree courses.
- Meet with your advisor to review progress and start planning for degree completion.

ENGAGE

- Complete UNIV 1301/1101.
- Join UTA student organizations such as Trekking, Sigma Gamma Epsilon, Environmental Science, Mavs Go Green.
- Sign up for the EES email list and attend department events, such as Friday noon Tech Session.

EXCEL

- Visit www.uta.edu/research/opportunities/undergraduate and discuss with faculty about research opportunities.
- Consider joining the Honors College.
- Consider a GIS certificate, data science minor, or double majors.

Destination Graduation

- Complete upper-division electives and minor requirements.
- Meet with your advisor to ensure degree completion.
- Apply for graduation.

EDUCATE

ENGAGE

- Explore volunteer opportunities with EES graduate students and faculty.
- Explore summer intern opportunities.
- Research about job opportunities and attend career fairs.
- Polish your resume and gain interview skills.
- Reflect on your education and career goals and add new skills if needed.

EXCEL

- Present at UTA, ACES, SETAC section, national, or YES meetings, or at other meetings.
- Take GRE or MCAT and seek for recommendation letters.
- Talk to potential thesis advisors in graduate schools.
- Polish your resume and gain interview skills.
- Apply to graduate schools.



MAVERICK ADVANTAGE

Be Bold. Be Ambitious. Set Yourself Apart.



CAREER DEVELOPMENT

- Internships
- Fellowships
- Assistantships
- Job Fairs
- Scholarships
- Peer Academic Leadership



GLOBAL ENGAGEMENT

- Global Grounds
- Global Mavericks Program
- International Week
- Language Exchange Program
- Study Abroad



LEADERSHIP DEVELOPMENT

- Mentorships
- Student Organizations
- Peer Education
- Volunteering
- Tutoring and Coaching
- Student Governance



COMMUNITY ENGAGEMENT

- Service Learning
- UTA Volunteers
- Camps for high school students



UNDERGRADUATE RESEARCH

- Undergraduate Research Assistantship
- Contact your professors for opportunities

FIND YOUR CAREER



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What career options do I have with this major?

- Environmental Consultant
- GIS Analyst
- Environmental Engineer
- Laboratory Assistant
- Environmental Scientist
- Field Engineer
- Field Geologist
- Field Technician
- Geologist
- Geoscientist

Workforce Skills

- Critical Thinking: Analyze issues, make decisions, and overcome problems by using sound reasoning before forming a strategy, decision, or opinion.
- Professionalism: Display effective work habits, high integrity, and ethical behavior. Possess the ability to demonstrate skills confidently and apply talents to achieve professional success.
- Teamwork/Collaboration: Work within a team and foster collaborative relationships with peers and supervisors. Use interpersonal skills to demonstrate respect and dignity for others while working toward a common goal.

Career Readiness

- Ability to make critical observations of geology and environmental features
- Ability to summarize data and field observations into report and present report to professionals
- Knowledge of scientific and engineering principles from a range of disciplines relevant to geology and the environment
- Perceiving three-dimensional spaces and forms
- Producing oral and written reports
- Proficiency with computers and scientific instruments
- Solving quantitative problems
- Working independently

Take Action

- Explore workforce skill development through on and off-campus activities.
- Engage with the UTA Career Development Center at uta.edu/careers.
- Meet with a career consultant
- Network with employers
- Discover internships and co-ops
- Apply for on-campus employment
- Join Handshake, our career services platform
- Participate in career development programs
- In addition, students must complete a field camp experience within the department.

Visit www.uta.edu/student-success/major_maps for the latest version of this major map.

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