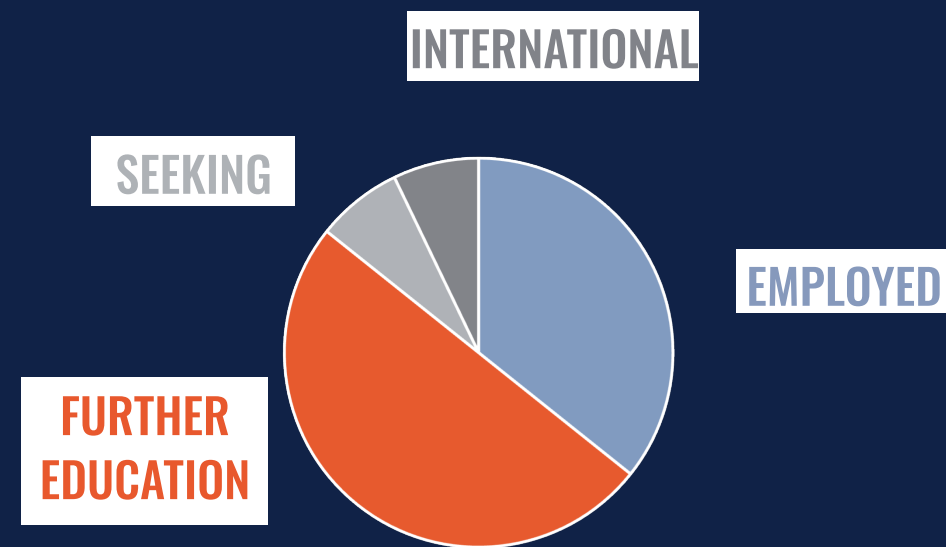




WHERE GEOPHYSICAL ENGINEERING STUDENTS GO



Student pursuits one-year post-graduation:



Industries of employment for students one year out:

- Aerospace/Defense/Aviation
- Civil/Construction & Building Trades
- Consulting
- Energy - Oil & Gas
- Government/ Public Sector
- Mining

Job titles of our graduates one-year out:

- Software Engineer
- Field Geophysicist
- Staff Geologist
- Scientific Researcher
- Geophysicist

This menu is a tool for you to use to explore opportunities at Mines outside of the classroom. These are not requirements, but rather recommendations to help you leverage what Mines has to offer. Just like at a restaurant, choose what looks best to you and start from there! This menu can help you create your own pathway and customize your experience during your time at Mines.

The activities are placed in specific years based off staff and faculty recommendations, but you can participate in most of them at any time. There is never a wrong time to get involved if you're looking, and no pressure to do any of these things!

Get to know Geophysical Engineering

The Department of Geophysics has an international reputation for excellence in applied geophysics. It is the oldest and broadest program of applied geophysics in North America, was the first U.S. university to offer a bachelor's degree in geophysical engineering and is evenly balanced between undergraduate and graduate students and between research and teaching. Our degree in geophysical engineering allows you to specialize in one of six areas by choosing a track of courses in Climate, Energy, Hazards, Humanitarian, Minerals, or Space.

Geophysics and geophysical engineering have important roles to play in solving challenging problems facing Earth's inhabitants, such as providing fresh water, food, and energy for the growing population, evaluating sites for underground construction and containment of hazardous waste, monitoring aging infrastructure, mitigating the threat of geohazards to populated areas, contributing to homeland security, evaluating changes in climate and managing society's response to them, and exploring other planets.



"I love geophysics not only because it is the best major but also because I have never met a group of people like the geophysics department; they are a group who wants to see you succeed."

PEYTON CHANDLER

Academic options in Geophysical Engineering

Explore the options below to see how to expand upon a Geophysical Engineering degree and what to expect from the course load.

▪ Minors

- [Computer Science](#)
- [Applied Mathematics & Statistics](#)
- [Data Science](#)
- [Geology & Geological Engineering](#)
- [McBride Honors Program](#)
- [Teaching](#)

▪ 4+1 Programs

- Humanitarian Engineering, Engineering and Technology Management, Hydrologic Science and Engineering, Space Resources, Computer Science, Data Science, Geology & Geological Engineering







▪ Academic Flow Chart

▪ Academic Catalog

Get Involved

Attend Celebration of Mines in August to get to know campus organizations and academic departments, sample food, and play games. Below are some departments that offer many great opportunities to enhance your experience here at Mines.

- [Student Activities, Involvement & Leadership](#)
- [University Honors and Scholars Program](#)
- [Every Oredigger](#)

	1st year	2nd year	3rd year	4th or final year
Leadership & Innovation 	<ul style="list-style-type: none"> Explore opportunities to get involved with the Undergraduate Student Government Explore options to get involved with RHA and Community Councils Apply for the Environmental Leadership Lab trip and Scholars Program. Check the Daily Blast for more information in April. Sign up to engage in innovative thinking and real-world problem solving with Innov8x Challenge 	<ul style="list-style-type: none"> Check out the Maker Society Attend the Leadership Summit and develop your leadership skills right on campus Participate in the Leadership Workshop Series with SAIL Attend the Hennebach Program lectures 	<ul style="list-style-type: none"> Look into becoming a student assistant in Geophysics Become an officer in a society or organization Apply to be an Undergraduate Writing Fellow, a peer tutor in the Writing Center. Check the Daily Blast for information in early October. 	<ul style="list-style-type: none"> Expand your leadership in a society or organization Take CSM 350: Special Studies in Leadership & Small Group Dynamics
Professional Development 	<ul style="list-style-type: none"> Update or create a college resume and get it reviewed with feedback Attend Career Day Use DiggerNet for employment opportunities 	<ul style="list-style-type: none"> Join the Society of Exploration Geophysicists, AGU or the Student Society of Geophysicists Participate in Career Day to network Create a LinkedIn Profile Enroll in CSM 250 to plan your career path Explore ethics opportunities across campus Attend VIP events each semester Attend the Chevron Lecture Series luncheon 	<ul style="list-style-type: none"> Attend Career Day for summer internship positions Consider opportunities for graduate schools Take Introduction to Research Ethics (SYGN 502) or Professional Oral Communication (LCM 501), both are graduate classes but accessible to Undergraduates. Write an article for SWE's annual newsletter Be a tutor or lead core review with CASA 	<ul style="list-style-type: none"> Look for full time employment at Career Day and on DiggerNet. Take advantage of the Career Center's Offer Letter Review Participate in free Mines sponsored review sessions for the FE and then register to take the exam
Research, Creative & Scholarly Achievement 	<ul style="list-style-type: none"> Explore the option of a summer with SURF Pick up copies of The Oredigger to see what is going on at Mines and maybe contribute a written piece. Explore how to get involved with research through different opportunities on campus 	<ul style="list-style-type: none"> Attend the Emerging Scholars Seminar Series to learn about various research topics Find a faculty member you are interested in working with and apply for MURF Explore classes offered through HASS 	<ul style="list-style-type: none"> Show your research outcomes in Reuleaux Explore options to join a musical group on campus or Mines Little Theater Take Research, Values, and Communication (HASS 360) Co-author a paper with a fellow student or faculty member Manage departmental or student organization's web and/or social media presence 	<ul style="list-style-type: none"> Submit a piece of visual art, fiction, poetry or music to High Grade Present at a professional conference Present at Mines Undergraduate Research Symposium
Inclusive & Impactful Civic Engagement 	<ul style="list-style-type: none"> Join the department's DI&A committee Apply to work at College View Middle School in Denver as a tutor Join Society of Women Engineers as a mentee Attend the Study Abroad Fair this Fall to start exploring your options. Additional scholarships may be available. Attend the annual Celebration of DI&A at Mines 	<ul style="list-style-type: none"> Participate in outreach at local elementary schools Participate in Girls Lead The Way Examine different viewpoints with the movie and book recommendations from MEP See how you can contribute to Mines Without Borders projects Join the Mines DI&A general council meetings or a learning community 	<ul style="list-style-type: none"> Assist with Trick-or-Treat so Golden Can Eat, more information in Daily Blast Tutoring at local high schools Explore DI&A workshops along with trainings from SHAPE Serve as a panelist at Making The Connection or other recruitment events Coordinate an S2S community service event 	<ul style="list-style-type: none"> Tutor at a local high school Volunteer as a mentor for K-14 student with Rocky Mountain MESA Take Art & Environmentalism in Italy Apply for a Mines DI&A community grant to help promote an inclusive campus Facilitate a workshop at Celebration of DI&A at Mines. Keep an eye on the Daily Blast for calls for proposals.
Health & Wellness 	<ul style="list-style-type: none"> Participate in Oredigger Camp to build your Mines community before classes start Balance studying for finals with daily wellness activities during Stress Less Week Become familiar with the Counseling Center's services Attend a QPR suicide prevention training Attend a Bystander Intervention workshop Attend Fresh Check Day Take a group fitness class 	<ul style="list-style-type: none"> Sign up to be a part of intramural sports Get financially savvy with Money Matters Participate in a Peer Educator led workshop Utilize YOU@Mines to find personalized wellness resources to succeed, thrive & matter at Mines Apply to be a Betsy's Friends Peer Educator Check on your own health at the Sexual and Reproductive Wellness Fair 	<ul style="list-style-type: none"> Adventure with the Outdoor Recreation Center through an organized trip (domestic or international!) or rent gear to have one of your own Get CPR/First Aid certified Prioritize your sleep by grabbing a Bedside Box Organize a suicide prevention training or a Peer Education workshop for your student organization Destress with some therapy dogs at Pause for Paws 	<ul style="list-style-type: none"> Show your loved ones everything you love about Mines at Family & Friends weekend Participate in the Imposter Syndrome Peer Education workshop before heading out into the workforce or graduate school Help manage your stress with Stress Less Box Take a Self-Check at YOU@Mines Do a QPR refresh
Academic Success 	<ul style="list-style-type: none"> Sign your family up for the CASA First-Year Family Newsletter so they can support your academic success Attend the Major Fair and declare a major in late April at Declaration Day with CASA. Keep an eye out for an announcement in the Daily Blast 	<ul style="list-style-type: none"> Mandatory Advising Participate in Summer Field Session this upcoming summer Explore Bounce Back if you are needing to retake a course, on academic probation or returning from academic suspension. 	<ul style="list-style-type: none"> Mandatory Advising Start to request letters of recommendation 	<ul style="list-style-type: none"> Mandatory senior design research experience