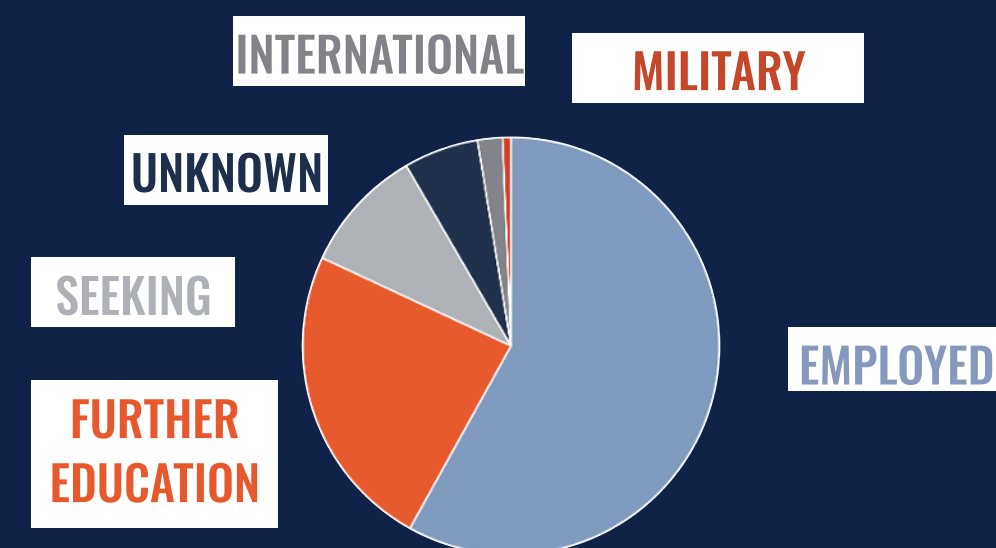




WHERE CHEMICAL ENGINEERING STUDENTS GO

Student pursuits one-year post-graduation:



Industries of employment for students one year out:

- Biotech/BioEngineering/Pharmaceuticals
- Aerospace/Defense/Aviation
- Government/Public Sector
- Automotive
- Education
- Civil/Construction & Building Trades
- Consulting
- High Tech/ Information Technology
- Energy - Oil & Gas
- Manufacturing
- Electronics/Electrical Components
- Utilities
- Mining

Job titles of our graduates one-year out:

- Process Engineer
- Chemical Engineer
- Research Associate/Technician
- Manufacturing Chemist
- Project Engineer
- Math Teacher

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 Chemical Engineering

Chemical Engineering is a broad field encompassing chemistry, biology, math and physics. It explores how materials are processed and produced, from design to large-scale manufacturing through chemical and biochemical processes.

Our degree is consistently shown to have some of the highest lifetime returns on investment for a public US university in an engineering department. The ABET-accredited degree offers increased flexibility in elective options and provides optional specialty tracks in Process Engineering and Biological Engineering. There is a emphasis on active learning starting with Studio Biology at the freshman level, research labs, and a six-week intensive field session.

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](#)

Academic options in Chemical Engineering

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

▪ Minors






- [Biology](#)
- [Biomedical Engineering](#)
- [Economics & Business](#)
- [Energy](#)
- [McBride Honors Program](#)
- [Teaching](#)

▪ 4+1 Programs

- Chemical and Biological Engineering
- Data Science
- Nuclear Engineering
- Quantitative Biosciences and Engineering (QBE)

▪ Academic Catalog

- **Suggested 4 Year Schedules can be found on the [CBE UG Communications Canvas site](#)(Current students only)**

	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"> Join IGEM on the Mines competition team Join AIChE for free as a student member and check out the Mines chapter 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"> Become an officer in your student 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 your organization Take CSM 350: Special Studies in Leadership & Small Group Dynamics
Professional Development 	<ul style="list-style-type: none"> Attend Lunch and Learn events to learn about careers in different organizations 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"> Look into the International Society of Pharmaceutical Engineering Attend Career Day for summer internship positions 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 the AIChE regional meeting Consider opportunities for graduate schools Take Introduction to Research Ethics (SYGN 502) or Professional Oral Communication (LICM 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
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"> Look into the Honors Research track 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 Manage departmental or student organization's web and/or social media presence 	<ul style="list-style-type: none"> Apply for a 4 + 1 Program 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 	<ul style="list-style-type: none"> Submit a piece of visual art, fiction, poetry or music to High Grade Present at a conference Present at Mines Undergraduate Research Symposium
Inclusive & Impactful Civic Engagement 	<ul style="list-style-type: none"> Look into going on a CBE Faculty Lead Study Abroad trip 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 Join the departmental DI&A Council 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"> Join CBE Pizza with the Profs 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 Do a personal training session with Rec Sports 	<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"> Request access from cbe@mines.edu to the CBE UG Communications Canvas site and explore it each semester for helpful advising sheets, elective information, and research and career information. 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. 	<ul style="list-style-type: none"> Check out CASA for academic advising to go over your schedule and academic opportunities 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"> Participate in Summer Field Session this upcoming summer or next Meet with CASA to go over your schedule and talk about possible graduate opportunities including 4+1 programs Start to request letters of recommendation from faculty or supervisors for graduate school or jobs 	<ul style="list-style-type: none"> Mandatory senior design research experience Apply to graduate school and/or jobs