Experiential Major Menu

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 Design Engineering

Design Engineering educates the next generation of engineering innovators, design thinkers, and impact makers who will be leaders in responding to the world’s most important challenges. This is a program for students who have a passion to make a positive impact on society and the environment – at the local, national, or global scale.

Design Engineering provides the most flexible degree structure of any engineering program at Mines, allowing students to apply their design expertise to areas of personal interest, like energy, robotics, community development, product design or a wide range of other career possibilities. In addition to traditional engineering or design careers in technology and product-based industries, DE graduates are ideal candidates for roles in NGOs, start-ups and government agencies, and they are uniquely suited to contribute technical design expertise to the fields of healthcare, policy, law and finance.

Academic options in Design Engineering

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

- **Tracks**
  - ADDRESSING WORLD-WIDE CHALLENGES
    - Energy Studies
    - Water Security
    - Community Development
    - K-12 STEM Teaching
  - FINDING INNOVATIVE SOLUTIONS
    - Robotics and Automation
    - Music and Audio Engineering
    - Corporate Sustainability
  - INDIVIDUALIZED FOCUS AREA
    - Customize a [course of study](https://eds.mines.edu) to pursue personal interests and passions

- **Minors**
  - Additive Manufacturing
  - Humanitarian Engineering (ECD or LSR)
  - McBride Honors Program

- **4+1 Programs**
  - Humanitarian Engineering
  - Engineering and Technology Management

- **Academic Flow Chart**
- **Academic Catalog**

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**Get Involved**

Attend Celebration of Mines in August to get to know campus organizations and academic departments, sample food, and play games. Here 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

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**WHERE DESIGN ENGINEERING STUDENTS GO**

Possible job titles for graduates:
- Product Design
- Experience Design
- Sustainable Energy
- International Development
- Entrepreneurship & Innovation
- Robotics

"My favorite part of the Design Engineering program is its creative, unconventional approach to engineering. As someone who has been socially and environmentally active in my community, the focus on ethics, lifecycle assessment, and community engagement is what drew me into the program."

-Annie Welch

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**Contact us:**
1318 Maple St. Bld #4., Golden, CO 80401  
https://eds.mines.edu
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<th>1st year</th>
<th>2nd year</th>
<th>3rd year</th>
<th>4th or final year</th>
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<td><strong>Leadership &amp; Innovation</strong>&lt;br&gt;• Join Design Club, Socially Responsible Scientists and Engineers (SRSE), or the Mines Theme Park Design Engineering Club (TPED).&lt;br&gt;• Explore opportunities to get involved with the Undergraduate Student Government.&lt;br&gt;• Explore options to get involved with RHA, and Community Councils.&lt;br&gt;• Apply for the Environmental Leadership Lab trip and Scholars Program. Check the Daily Blast for more information in April.</td>
<td><strong>Leadership &amp; Innovation</strong>&lt;br&gt;• Explore the Teacher Education Alliance if you’re interested in education issues or reach out to E-Stew if you want to learn more about entrepreneurship.&lt;br&gt;• Attend the Leadership Summit and develop your leadership skills right on campus.&lt;br&gt;• Participate in the Leadership Workshop Series.&lt;br&gt;• Attend the Emerging Scholars Seminar Series to learn about various research topics.&lt;br&gt;• Find a faculty member you are interested in working with and apply for Summer Research.&lt;br&gt;• Explore classes offered through HASS.</td>
<td><strong>Leadership &amp; Innovation</strong>&lt;br&gt;• Become an officer in your student organization.&lt;br&gt;• Apply to be an Undergraduate Writing Fellow, a peer tutor in the Writing Center. Check the Daily Blast for information in early October.</td>
<td><strong>Leadership &amp; Innovation</strong>&lt;br&gt;• Expand your leadership in your organization.&lt;br&gt;• Take CASA 395: Special Studies in Leadership &amp; Small Group Dynamics.</td>
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<td><strong>Professional Development</strong>&lt;br&gt;• Update or create a college resume and get it reviewed with feedback.&lt;br&gt;• Attend Career Day.&lt;br&gt;• Use DiggerNet for employment opportunities.</td>
<td><strong>Professional Development</strong>&lt;br&gt;• Attend Career Day for summer internship positions.&lt;br&gt;• Create a LinkedIn profile.&lt;br&gt;• Enroll in CASA 250 to plan your career path.&lt;br&gt;• Explore internship opportunities across campus.&lt;br&gt;• Attend UPward each semester.&lt;br&gt;• Attend the Check-in Lecture Series luncheon.</td>
<td><strong>Professional Development</strong>&lt;br&gt;• Participate in Career Day to network.&lt;br&gt;• Consider opportunities for graduate schools.&lt;br&gt;• Take Introduction to Research Ethics (ORS 150) or Professional Oral Communication (ORCN 515). Both are graduate classes but accessible to undergraduates.&lt;br&gt;• Write an article for SWE’s annual newsletter.&lt;br&gt;• Be a tutor or lead core review with CASA.</td>
<td><strong>Professional Development</strong>&lt;br&gt;• Look for full-time employment at Career Day and on DiggerNet. &lt;br&gt;• Take advantage of the Career Center's Offer Letter Review.</td>
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<td><strong>Research, Creative &amp; Scholarly Achievement</strong>&lt;br&gt;• Explore the option of a summer with SWE.&lt;br&gt;• Pick up copies of The Oredigger to see what is going on at Mines and maybe contribute a written piece.&lt;br&gt;• Explore how to get involved with research through different opportunities on campus.</td>
<td><strong>Research, Creative &amp; Scholarly Achievement</strong>&lt;br&gt;• Start to develop the framework for your portfolio in Intro to Design Engineering (EDNS 200).&lt;br&gt;• Attend the Emerging Scholars Seminar Series to learn about various research topics.&lt;br&gt;• Find a faculty member you are interested in working with and apply for Summer Research.&lt;br&gt;• Explore classes offered through HASS.</td>
<td><strong>Research, Creative &amp; Scholarly Achievement</strong>&lt;br&gt;• Update your design portfolio.&lt;br&gt;• Show your research outcomes in Research. &lt;br&gt;• Explore options to join a musical group on campus or Mines Little Theater. &lt;br&gt;• Take Research, Values, and Communication (HASS 195).&lt;br&gt;• Co-author a paper with a fellow student or faculty member.&lt;br&gt;• Manage departmental or student organization's web and/or social media presence.</td>
<td><strong>Research, Creative &amp; Scholarly Achievement</strong>&lt;br&gt;• Finalize your portfolio.&lt;br&gt;• Submit a piece of visual art, fiction, poetry or music to High Grade Quarterly. &lt;br&gt;• Present at a conference.&lt;br&gt;• Present at Mines Undergraduate Research Symposium.</td>
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<td><strong>Inclusive &amp; Impactful Civic Engagement</strong>&lt;br&gt;• Apply to work at College View Middle school in Denver as a Tutor.&lt;br&gt;• Join Society of Women Engineers as a member.&lt;br&gt;• Attend the Study Abroad Fair this fall to start exploring your options. Additional scholarships may be available.</td>
<td><strong>Inclusive &amp; Impactful Civic Engagement</strong>&lt;br&gt;• Apply in Outreach at local elementary schools.&lt;br&gt;• Participate in Girls Lead the Way.&lt;br&gt;• Examine different viewpoints with the more and less programmatic lab from MEP.&lt;br&gt;• See how you can contribute to Mines Without Borders projects.&lt;br&gt;• Join the Mines RHA general council meetings or a Learning Community.</td>
<td><strong>Inclusive &amp; Impactful Civic Engagement</strong>&lt;br&gt;• Assist with Trick-or-Treat so Golden Can Eat, more information in Daily Blast.&lt;br&gt;• Tutor at local high schools.&lt;br&gt;• Explore DTA workshops along with trainings from SHAPE.&lt;br&gt;• Serve as a panelist at Making The Connection or other recruitment events.&lt;br&gt;• Coordinate an Negro community service event.</td>
<td><strong>Inclusive &amp; Impactful Civic Engagement</strong>&lt;br&gt;• Tutor at a local high school.&lt;br&gt;• Volunteer as a mentor for K-14 student with Rocky Mountain MESA.&lt;br&gt;• Take Art &amp; Environmentalism in Italy.&lt;br&gt;• Apply for a Mines D&amp;I Community Grant to help promote an inclusive campus.&lt;br&gt;• Facilitate a workshop at Celebration of D&amp;I at Mines. Keep an eye on the Daily Blast for calls for proposals.</td>
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<td><strong>Health &amp; Wellness</strong>&lt;br&gt;• Keep an eye out for DE community events in the DE Digest or on the student page.&lt;br&gt;• Participate in Oredigger Camp to build community.&lt;br&gt;• Become familiar with the Counseling Center’s Peer Education program and services.&lt;br&gt;• Attend a QPR suicide prevention training.&lt;br&gt;• Attend a Byrdander Intervention workshop.&lt;br&gt;• Attend Fresh Check Day.&lt;br&gt;• Take a group fitness class.</td>
<td><strong>Health &amp; Wellness</strong>&lt;br&gt;• Attend the Engineering, Design &amp; Society Social to meet faculty and other students.&lt;br&gt;• Sign up to be a part of intramural sports.&lt;br&gt;• Get financially savvy with Mines Matters.&lt;br&gt;• Participate in a Peer Educator led workshop.&lt;br&gt;• Utilize YOU@Mines to find personalized wellness resources to succeed, when it matters at Mines.&lt;br&gt;• Apply to be a Buddy’s Friends, Peer Educator.&lt;br&gt;• Check on your own health at the Sexual and Reproductive Wellness Fair.</td>
<td><strong>Health &amp; Wellness</strong>&lt;br&gt;• Attend the Oredigger Camp to meet faculty and other students.&lt;br&gt;• Get physically fit with ResLife’s fitness classes.&lt;br&gt;• Participate in a peer educator led workshop.&lt;br&gt;• Utilize YOU@Mines to find personalized wellness resources to succeed, when it matters at Mines.&lt;br&gt;• Apply to be a Buddy’s Friends, Peer Educator.&lt;br&gt;• Check on your own health at the Sexual and Reproductive Wellness Fair.</td>
<td><strong>Health &amp; Wellness</strong>&lt;br&gt;• Show your loved ones everything you love about Mines at Family &amp; Friends weekend.&lt;br&gt;• Participate in the Imposter Syndrome Peer Education workshop before heading out into the workforce or graduate school.&lt;br&gt;• Help manage your stress with the Stress Less Box.&lt;br&gt;• Take a Self-Check at YOU@Mines.&lt;br&gt;• Do a QPR training.</td>
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<td><strong>Academic Success</strong>&lt;br&gt;• Attend the DE Info Session with friends.&lt;br&gt;• Start to explore future options and flowcharts.&lt;br&gt;• Sign your family up for the CASA First-Year Family Newsletter so they can support your academic success.&lt;br&gt;• 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.</td>
<td><strong>Academic Success</strong>&lt;br&gt;• Check out CASA for academic advising to talk about focus areas and pre-reg mapping.&lt;br&gt;• Explore Group advising sessions through DE Mandatory Advising.&lt;br&gt;• Reach out to your major advisor if you need to retake a course, or academic probation or returning from academic suspension.</td>
<td><strong>Academic Success</strong>&lt;br&gt;• Develop project proposal for Capstone Design.&lt;br&gt;• Meet with CASA to go over your schedule and talk about possible graduate opportunities including 4+1 programs. &lt;br&gt;• Start to request letters of recommendation from faculty or supervisors for graduate school or jobs.</td>
<td><strong>Academic Success</strong>&lt;br&gt;• Mandatory senior design experience.&lt;br&gt;• Apply to graduate school and/or jobs.</td>
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