Some students may consider Mining Engineering to be low-technology, dirty, and damaging to the environment. In fact, Mining Engineering has a full knowledge of geological sciences. Mining Engineers will be needed as well. The population of the earth continues to grow, and that means extracting minerals from the earth to support our growing global population and modern standard of living. The profession is critical for the advancement of the human race into the future. And someday, mining engineers will succeed on behalf of the earth and its people.

Students desiring a career involving strong individual responsibility across the profession of engineering, working at surface or underground mine sites, working in many countries during a career – these students will enjoy a career in Mining Engineering. Students who desire to make a major contribution providing society’s requirements for minerals, they may not want to undertake mining engineering. Mines are located where there are economical mineral deposits, so Mining Engineers must live or frequently visit the mine locations. If a student does not want to live possibly at a remote location or travel frequently, they may not want to become a mining engineer.

The future of this discipline includes...

- Environmental science and engineering, social sciences, economics, safety engineering, and innovation and application of new technologies and methods to enhance geologic exploration, mine planning and operations, environmental management and successful and responsible mine closure.
- There is no real comparative discipline. Mining Engineers very often bear a huge responsibility to society and the environment.
- Do students who graduate in this discipline often pursue graduate work (Masters, PhD, etc.)? Increasingly students with a bachelor’s degree seek advanced degrees after graduation or while working. Advanced degrees include a Master’s or PhD in Mining Engineering, another engineering field or geology, or an MBA or a related business degree. The advanced degrees give the engineers a competitive advantage over their peers for advancement.
- Do students who graduate in this discipline often pursue graduate work (Masters, PhD, etc.)? Increasingly students with a bachelor’s degree seek advanced degrees after graduation or while working. Advanced degrees include a Master’s or PhD in Mining Engineering, another engineering field or geology, or an MBA or a related business degree. The advanced degrees give the engineers a competitive advantage over their peers for advancement. An MBA is advantageous for students seeking a career path in mine management.
- Students desiring a career involving strong individual responsibility across the profession of engineering, working at surface or underground mine sites, working in many countries during a career – these students will enjoy a career in Mining Engineering. Students who desire to make a major contribution providing society’s requirements for minerals, they may not want to undertake mining engineering. Mines are located where there are economical mineral deposits, so Mining Engineers must live or frequently visit the mine locations. If a student does not want to live possibly at a remote location or travel frequently, they may not want to become a mining engineer.

Do students who graduate in this discipline often pursue graduate work (Masters, PhD, etc.)? Increasingly students with a bachelor’s degree seek advanced degrees after graduation or while working. Advanced degrees include a Master’s or PhD in Mining Engineering, another engineering field or geology, or an MBA or a related business degree. The advanced degrees give the engineers a competitive advantage over their peers for advancement. An MBA is advantageous for students seeking a career path in mine management.

What misconceptions do students often have about this discipline?

- Some students might consider Mining Engineering to be low-technology, dirty, and damaging to the environment. In fact, Mining Engineering has a full knowledge of geological sciences. Mining Engineers will be needed as well. The population of the earth continues to grow, and that means extracting minerals from the earth to support our growing global population and modern standard of living. The profession is critical for the advancement of the human race into the future. And someday, mining engineers will succeed on behalf of the earth and its people.
- Students desiring a career involving strong individual responsibility across the profession of engineering, working at surface or underground mine sites, working in many countries during a career – these students will enjoy a career in Mining Engineering. Students who desire to make a major contribution providing society’s requirements for minerals, they may not want to undertake mining engineering. Mines are located where there are economical mineral deposits, so Mining Engineers must live or frequently visit the mine locations. If a student does not want to live possibly at a remote location or travel frequently, they may not want to become a mining engineer.

What are some of the most popular research areas for this discipline?

- Environmental science and engineering, social sciences, economics, safety engineering, and innovation and application of new technologies and methods to enhance geologic exploration, mine planning and operations, environmental management and successful and responsible mine closure.
- Different Thems. Similar to...

- Students desiring a career involving strong individual responsibility across the profession of engineering, working at surface or underground mine sites, working in many countries during a career – these students will enjoy a career in Mining Engineering. Students who desire to make a major contribution providing society’s requirements for minerals, they may not want to undertake mining engineering. Mines are located where there are economical mineral deposits, so Mining Engineers must live or frequently visit the mine locations. If a student does not want to live possibly at a remote location or travel frequently, they may not want to become a mining engineer.

Who excels in this discipline?

- Mining Engineering students seek to make a difference - they care about the world and its people. They like applied learning and are born problem solvers. They understand how to listen to stakeholders, and they expect to work collaboratively. They also like working in remote sites, enjoying the people, the geology, the challenges, and of course nature!

What are some of the most popular research areas for this discipline?

- Environmental science and engineering, social sciences, economics, safety engineering, and innovation and application of new technologies and methods to enhance geologic exploration, mine planning and operations, environmental management and successful and responsible mine closure.
- Different Thems. Similar to...

What is this discipline unique as it...

- Mining Engineers are the stewards of the earth’s resources and therefore bear a huge responsibility to society and the environment.
- The population of the earth continues to grow, and that means more people will want access to more reliable technology and an elevated quality of life - both of which require an active mining industry that can serve the stockholders and produce the needed materials in a socially and environmentally responsible manner.
- This is a challenge that will only expand in the future, but mining engineers are trained in breadth of discipline and in societal, cultural, and ethical issues - Mining Engineers will succeed on behalf of the earth and its people.

This discipline often seeks answers to...

- Different Thems. Similar to...

- Environmental science and engineering, social sciences, economics, safety engineering, and innovation and application of new technologies and methods to enhance geologic exploration, mine planning and operations, environmental management and successful and responsible mine closure.
- Different Thems. Similar to...

Answers provided by representatives of the respective department. Students are encouraged to connect with CASA or the Academic Department for more information.