The Electrical Engineering program prepares graduates to solve real-world challenging problems related to earth, energy, and the environment. The department offers BS, MS and PhD degrees in electrical engineering.

This discipline is unique as it...
Our electrical engineering program is well focused on three areas of engineering expertise, antennas and wireless communications, energy systems and power electronics, and information and systems sciences.

Who excels in this discipline?
Students with strong backgrounds in Mathematics and Physics and those who would like to be creative and meet the challenges of the 21 century.

What are some of the most popular research areas for this discipline?
(1) Antennas and Wireless Communications (AWC),
(2) Energy Systems and Power Electronics (ESPE),
(3) Information and Systems Sciences (ISS).

This discipline often seeks answers to...
The electrical engineering program strives to educate our students the fundamentals and applied concepts for solving real world problems.

The future of this discipline includes...
The electrical engineering program is centered around these three areas (1) Antennas and Wireless Communications, (2) Energy Systems and Power Electronics, and (3) Information and Systems Sciences. These three areas are essential components to the success of mission and goals of Colorado School of Mines.

Do students who graduate in this discipline often pursue graduate work (Masters, PhD, etc.)?
Good percentage pursue Masters degree. Smaller percentage progress towards PhD degree. The excellent job opportunities available for our BS in EE graduates makes it harder to have many of them continue for a higher degree.

What misconceptions do students often have about this discipline?
Students in general do not realize the broader scope of the electrical engineering discipline before getting into the upper divisions (third and fourth year of the program).

What minors are often paired with this major/degree? Why?
With the pervasiveness of computing in modern society today, Computer Science is a great pair (double major or minor) with any other degree program at Mines.

Different Than, Similar to
(1) Antennas and Wireless Communications (AWC),
(2) Energy Systems and Power Electronics (ESPE),
(3) Information and Systems Sciences (ISS).

With the pervasiveness of computing in modern society today, Computer Science is a great pair (double major or minor) with any other degree program at Mines.

What degree(s) is this discipline often compared to?
No comparison.

Why should a student pursue this degree? Why should they not?
If he or she is looking for a innovative and challenging career.

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