The Graduate School

2020-2021

https://www.mines.edu/graduate-studies/

Unique Programs

Because of its special focus, Colorado School of Mines has unique programs in many fields. For example, Mines is the only institution in the world that offers doctoral programs in all five of the major earth science disciplines: Geology and Geological Engineering, Geophysics, Geochemistry, Mining Engineering, and Petroleum Engineering. It also has one of the few Metallurgical and Materials Engineering programs in the country that still focuses on the complete materials cycle from mineral processing to finished advanced materials.

In addition to the traditional programs defining the institutional focus, Mines is pioneering both undergraduate and graduate interdisciplinary programs. Mines understands that solutions to the complex problems involving global processes and quality of life issues require cooperation among scientists, engineers, economists, and the humanities.

Mines offers interdisciplinary graduate programs in areas such as Advanced Energy Systems, Advanced Manufacturing, Geochemistry, GIS & Geoinformatics, Humanitarian Engineering & Science, Hydrologic Science & Engineering, Materials Science, Nuclear Science & Engineering, Operations Research with Engineering, Quantitative Biosciences & Engineering, Space Resources, and Underground Construction & Tunneling Engineering. These programs make interdisciplinary connections between traditional fields of engineering, physical science and social science, emphasizing a broad exposure to fundamental principles while cross-linking information from traditional disciplines to create the insight needed for breakthroughs in the solution of modern problems. Additional interdisciplinary degree programs may be created by Mines’ faculty as need arises.

Lastly, Mines offers a variety of non-thesis Professional Master’s degrees to meet the career needs of working professionals in Mines’ focus areas.

Graduate Degrees Offered

Mines offers graduate certificate, professional master’s, master of science (MS), master of engineering (ME) and doctor of philosophy (PhD) degrees in the disciplines listed in the chart.

In addition to master’s and PhD degrees, departments and divisions can also offer graduate and post-baccalaureate certificates. Graduate and post-baccalaureate certificates are designed to have selective focus, short time to completion, and consist of course work only.

Accreditation

Mines is accredited through the doctoral degree by the following:

The Higher Learning Commission (HLC) of the North Central Association
230 South LaSalle Street, Suite 7-500
Chicago, Illinois 60604-1413
telephone (312) 263-0456

The Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology accredits undergraduate degree programs in chemical engineering, engineering, engineering physics, geological engineering, geophysical engineering, metallurgical and materials engineering, mining engineering and petroleum engineering. The American Chemical Society has approved the degree program in the Department of Chemistry and Geochemistry.
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<tr>
<th>Field</th>
<th>2020-21</th>
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<td>Underground Construction and Tunnel Engineering</td>
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