

Geological Engineering

School of Mineral Engineering
Department of Mining and Geological Engineering
(907) 474-7388
www.uaf.edu/sme/GeolEng.html



M.S. Degree

Minimum Requirements for Degree: 30-33 credits

Geological engineering deals with the application of geology. Geological engineers work with the environment in the true sense of the word. Properties of earth materials exploration activities, geophysical and geochemical prospecting, site investigations and engineering geology are all phases of geological engineering.

The graduate program prepares students for employment with industry, consulting companies and government agencies.

Graduate Program—M.S. Degree

1. Complete a comprehensive entrance exam.
2. Complete the general university requirements (page 166).
3. Complete the master's degree requirements (page 170).
4. Complete the thesis or non-thesis requirements:

Thesis

- a. Complete the following:
 - GE 635—Geostatistical Ore Reserve Estimation (3)
or MIN 621—Advanced Mineral Economics (3)..... 3
 - GE 620—Advanced Groundwater Hydrology..... 3
 - GE 630—Advanced Applied Mining Geology 3
 - GE 666—Advanced Engineering Geology 3
 - Geological engineering courses and technical electives..... 12
 - GE 699—Thesis 6
- b. Minimum credits required 30

Non-Thesis

- a. Complete the following:
 - GE 635—Geostatistical Ore Reserve Estimation (3)
or MIN 621—Advanced Mineral Economics (3)..... 3
 - GE 620—Advanced Groundwater Hydrology..... 3
 - GE 630—Advanced Applied Mining Geology 3
 - GE 666—Advanced Engineering Geology 3
 - Geological engineering courses and technical electives..... 15
 - GE 698—Research/Project 6
- b. Minimum credits required 33

Note: Page numbers refer to the UAF 2004-2005 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

