## **Geological Engineering**

College of Engineering and Mines Department of Mining and Geological Engineering (907) 474-7388 www.uaf.edu/cem/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 176).
- 3. Complete the master's degree requirements (page 180).
- 4. Complete the thesis or non-thesis requirements:

## Thesis

THESIS	
a. Complete 12 credits from the following six courses:	
GE 620—Advanced Groundwater Hydrology	3
GE 630—Advanced Applied Mining Geology	3
GE 635—Advanced Geostatistical Applications	3
GE 665—Advanced Geomaterial Engineering	3
GE 666—Advanced Engineering Geology	3
MIN 621—Advanced Mineral Economics	3
b. Geological engineering courses and technical electives	11
GE 692—Graduate Seminar	1
GE 699—Thesis	6
c. Minimum credits required	30
Non-Thesis	
a. Complete 12 credits from the following six courses:	
GE 620—Advanced Groundwater Hydrology	3
GE 630—Advanced Applied Mining Geology	3
GE 635—Advanced Geostatistical Applications	
GE 665—Advanced Geomaterial Engineering	
GE 666—Advanced Engineering Geology	
MIN 621—Advanced Mineral Economics	
b. Geological engineering courses and technical electives	14
GE 692—Graduate Seminar	
GE 698—Research/Project	
c. Minimum credits required	33

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be

viewed online at www.uaf.edu/catalog/.

