

Mineral Preparation Engineering

College of Engineering and Mines
Department of Mining and Geological Engineering
(907) 474-7388
www.uaf.edu/cem/min

M.S. Degree

Minimum Requirements for Degree: 30–36 credits

The mineral preparation engineering program offers specialization in the processes used to concentrate target minerals and remove undesirable material from mined ore. Interdisciplinary study of chemistry, physics, the geological sciences and engineering are integrated to allow the characterization, separation, agglomeration, extraction and handling of mineral particles.

Since large quantities of solid waste and process water are often produced as a result of mineral extraction, pollution control technology is also an important aspect of mineral preparation.

Students are prepared for career opportunities in the mineral industry, consulting and research firms, environmental industry, and investment and commodity firms in the private sector.

Graduate Program—M.S. Degree

1. Complete the general university requirements (page 182).
2. Complete the master's degree requirements (page 186).
3. Complete the following:

MIN 415—Coal Preparation	3
MPR 601—Froth Flotation	3
MPR 606—Plant Design.....	3
MPR 688—Graduate Seminar I.....	1
4. Complete the thesis or non-thesis requirements:

Thesis	
a. Complete the following:	
MPR 699—Thesis.....	6
Technical electives.....	14
b. Minimum credits required.....	30
Non-Thesis	
a. Complete the following:	
MPR 698—Research/Project.....	6
Technical electives.....	20
b. Minimum credits required.....	36