

Mining Applications and Technologies

College of Rural and Community Development
Tanana Valley Campus
(907) 455-2868
www.tvc.uaf.edu/programs/protech-info.html

Certificate

Minimum Requirements for Certificate: 31 or 37 credits

This program prepares students for employment in the mining technology industry and provides career development and personal enrichment for experienced miners and workers within the mineral industry. Possible career paths for certificate graduates include entry-level positions with exploration, mining, environmental and consulting companies.

Holders of this certificate will be trained to meet the anticipated demand for workers in open pit mining, surface coal mining, underground metal mining, sand and gravel, and placer mining. Two options are available: surface and underground mining techniques is intended for the miner, and mineral processing operations is intended for mineral process operators. After completing AMIT 109 and/or AMIT 129, students will receive the Mine Safety Health Association certificate. Contact the process technology department at (907) 455-2868 for information on the MSHA certificate.

Certificate Program

Options: Surface and Underground Mining Techniques or Mineral Processing Operations

1. Complete the general university degree requirements (page 80).
2. Complete the certificate requirements (page 82).
3. Complete the following program requirements for either option A or option B:

Option A: Surface and Underground Mining Techniques

AMIT 101—Introduction to Mining	3
AMIT 109—Underground Mine Safety	1
AMIT 110—Underground Mining I	3
AMIT 120—Explosives I	3
AMIT 129—Surface Mining Safety	1
AMIT 130—Surface Mining Operations	3
AMIT 155—Drilling Technology	3
AMIT 210—Underground Mining II	3
AMIT 220—Explosives II	3
AMIT 230—Field Methods	2

Option B: Mineral Processing Operations

AMIT 101—Introduction to Mining	3
AMIT 129—Surface Mining Safety	1
AMIT 130—Surface Mining Operations	3
AMIT 135—Introduction to Mining Systems and Equipment	4
AMIT 140—Environmental Permitting	1
AMIT 145—Introduction to Mineral Beneficiation	3
AMIT 154—Water Quality and Flocculants	3
AMIT 162—Geochemical Sampling	1
AMIT 230—Field Methods	2
AMIT 231—Heap Leaching	1
PRT 101—Introduction to Process Technology	3
PRT 110—Introduction to Occupational Safety, Health and Environmental Awareness	3
PRT 140—Industrial Process Instrumentation I	3

4. Minimum credits required 31 or 37

Note: Page numbers refer to the UAF 2006-2007 academic catalog, which can be viewed online at www.uaf.edu/catalog/.