

Mining Applications and Technologies

College of Rural and Community Development
Tanana Valley Campus
907-455-2906
www.tvc.uaf.edu/

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 F109 and/or AMIT F129, 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 86).
2. Complete the certificate requirements (page 88).
3. Complete the following program requirements for either option A or option B:

Option A: Surface and Underground Mining Techniques

AMIT F101—Introduction to Mining	3
AMIT F109—Underground Mine Safety	1
AMIT F110—Underground Mining I	3
AMIT F120—Explosives I	3
AMIT F129—Surface Mining Safety	1
AMIT F130—Surface Mining Operations.....	3
AMIT F155—Drilling Technology.....	3
AMIT F210—Underground Mining II.....	3
AMIT F220—Explosives II.....	3
AMIT F230—Field Methods	2

Option B: Mineral Processing Operations

AMIT F101—Introduction to Mining	3
AMIT F129—Surface Mining Safety	1
AMIT F130—Surface Mining Operations.....	3
AMIT F135—Introduction to Mining Systems and Equipment	4
AMIT F140—Environmental Permitting.....	1
AMIT F145—Introduction to Mineral Beneficiation.....	3
AMIT F154—Water Quality and Flocculants.....	3
AMIT F162—Geochemical Sampling.....	1
AMIT F230—Field Methods	2
AMIT F231—Heap Leaching.....	1
PRT F101—Introduction to Process Technology	3
PRT F110—Introduction to Occupational Safety, Health and Environmental Awareness.....	3
PRT F140—Industrial Process Instrumentation I	3

4. Minimum credits required 31 or 37