



Imagine being offered your choice of several jobs anywhere in the world. Imagine making great wages and enjoying an above-average lifestyle.

## Programs

- Bioleaching Certificate (Pending Ministry approval)
- Mining Engineering Technician

Today's mining has a safety record that is above the average of all other industrial activities. Mining has evolved into a safe, efficient, and high-tech industry.

The industry employs highly skilled tradespersons, technicians, technologists, and engineers. Miners work with equipment that costs millions of dollars, including radio remote scoop trams and electric hydraulic drills. Extensive training is required to work with this equipment.

Metals and minerals are the raw materials for thousands of products used every day and society will always need mining and mining-related industries.

## Features and Highlights

- Mining Engineering Technician is now available through distance education with a field school component. For more details, call the program coordinator at 705-672-3376 Ext. 8829 or email [hamiltonp@northern.on.ca](mailto:hamiltonp@northern.on.ca).
- The Haileybury School of Mines is a founding member of the Federated School of Mines whose goal is to attract people to the North, strengthen communities through access to education and training, encourage learners to stay in Northern Ontario, and assist industry in meeting its educational needs.
- The Haileybury School of Mines has been training mining professionals for over 90 years. HSM graduates are working around the world today.
- The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) conditionally recognizes the Mining Engineering Technician program as meeting the academic requirements for certification.



# Bioleaching Certificate (Pending ministry approval)

This program will enable the student to gain the required competencies to function confidently in a bioleaching plant. Offered over two semesters, the hands-on portion of the program will be conducted at the Centre of Excellence for Bioleaching at Northern College. The plant site is only a few kilometres from the College's Haileybury campus.

## Employment Opportunities

Graduates may obtain employment in bioleaching plants and related industrial sampling plants.

## Admission Requirements

Ontario Secondary School Diploma (OSSD)  
Grade 12 English (C, M, U)  
Grade 12 Math (C, M, U)

Or equivalent.

Or mature student status (an applicant who does not have a high school diploma or equivalent, and will have reached the age of 19 years on or before the start of the program). Mature students must undergo academic testing prior to admission into a program. Call the Admissions Office at 705-235-7222 for more details.

Note: Academic prerequisites for this program may be obtained free of charge through Academic Upgrading. Refer to the Post-Secondary Preparation section in this calendar for more details.

<b>Length</b>	<b>2 Semesters</b>
<b>Location(s)</b>	<b>(HL) Haileybury</b>
<b>Code(s)</b>	(Pending ministry approval)

## Program of Studies

### Semester I

CM1903-A Communications I  
EV1013 Chemistry and Physics  
GN1082 College Success (General Education)  
IT1004 Basic Techniques  
IT1014 Measuring Principles I

### Semester II

BU2003 Human Resource Management  
GN1033 Health and Safety  
EV4011 Laboratory Analysis  
IT2004 Control Principles  
MI2004 Mineralogy and Geology II  
EL1003 Elective (General Education)  
BI2023 Microbiology

## For program information:

Patricia Hamilton  
Program Coordinator  
705-672-3376 ext. 8829  
hamiltonp@northern.on.ca

<b>Length</b>	<b>4 Semesters</b>
<b>Location(s)</b>	<b>(HL) Haileybury (HL) Distance Education</b>
<b>Code(s)</b>	<b>NORT-M002-HL NORT-M002A-HL</b>

### Program of Studies

#### Semester I

CM1903-A	Communications I
MA1100	Math I
MI1003	Geology – Mineralogy I
MI1013	Surveying I
MI1033	Introduction to Mining
CH2033	Chemistry I

#### Semester II

CM2903-A	Communications II
MA2104	Math II
MI1032	Mining Physics (half semester)
MI2002	Effective Supervision I
MI2004	Geology – Mineralogy II
MI2013	AutoCAD I
MI2043	Mining II Field School (Surveying II, Mineralogy and Geology III)
EL1003	Elective

#### Semester III

MA3033	Math III
MI3033	Mining III
MI3043	Surveying III
MI3053	Mining Economics
MI3163	Geology – Mineralogy IV
EL1003	Elective Safety and Loss Control

#### Semester IV

MA4013	Math IV (Statistics)
MI4004	Geology – Mineralogy V
MI4033	Mining IV
MI4043	Mineral Processing II
MI6044	Mine Ventilation
MI6053	Ground Control Environment Field School (Mineral Processing II, Surveying IV, Mineralogy and Geology VI)

### For program information:

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Program Coordinator  
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### Mining Engineering Technician is now available through distance education and includes a field school component

Mining is an industry marked by technological change and challenge. Employers seek graduates who are highly motivated and able to adapt to a variety of conditions. For those who choose such a challenging career the rewards are excellent.

The technician is part of the engineering team, involved in all aspects of mining. The opportunities range from exploration, planning, and operation, to mineral extraction and environmental control.

This broad-based program is offered in a modular format allowing students to maintain their employment, as well as undertake exciting studies in mining. Distance education is coupled with lab courses and field school components to create a flexible learning experience.

### Employment Opportunities

Graduates of Northern College's Haileybury School of Mines, of whom there are over 2,000, work in every aspect of mining all over the world. Jobs range from surveyor, planner, and production supervisor through to mine manager. Those employed in mineral extraction work as assayers, process controllers, metallurgical technologists, to mill superintendents. Many graduates are employed by explosive, chemical and equipment firms as sales and technical service representatives. Due to the integrated curriculum, all graduates are prepared to shift laterally in a mining company as priorities and economic realities dictate. As well, they are well placed to rise in the corporate world and to work internationally.

### Admission Requirements

Ontario Secondary School Diploma (OSSD)  
Grade 12 English (C, M, U)  
Grade 12 Math (C, M, U) (MCT4C preferred; MAP4C is accepted with a minimum GPA of 60%)  
Grade 12 Chemistry (C, M, U) recommended  
Grade 12 Physics (C, M, U) recommended

Or equivalent.

Or mature student status (an applicant who does not have a high school diploma or equivalent, and will have reached the age of 19 years on or before the start of the program). Mature students must undergo academic testing prior to admission into a program. Call the Admissions Office at 705-235-7222 for more details.

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