

MINING ENGINEERING TECHNICIAN (MNTN)

Ontario College Diploma | 4 semesters | Barrydowne

The mining industry is dynamic and ever-changing, and Cambrian's Mining Engineering Technician program will challenge you to explore why and how things work and to find innovative solutions to problems.

As you learn and live in one of the mining centres of the world, you will prepare to become part of mining engineering teams responsible for a wide range of projects involving surveying, drafting, design, environmental studies, industrial geological and geophysical fieldwork, ventilation, ground control, and supervision.

Industry-experienced faculty members will guide your progress and understanding through examples gained from industry experience, field trips in the renowned Sudbury basin, and hands-on demonstrations. You will benefit from a variety of experiential learning opportunities, including activities at an active mine site to gain a broad understanding of the various aspects of mining engineering as well as communication and leadership skills.

You may be required to participate in Service Type Common Core training (requires an employer sign-off for registration) as part of your practical underground learning experience.

Program Highlights

- 2 years – 4 semesters
- Optional 4-month co-op placement (depending on availability of positions)
- Gain a solid foundation in surveying, geology, AutoCAD, mine development, mine ventilation, and more
- 10-day field school at the end of the second semester
- Field trips to mine sites and/or mining suppliers when available
- Annual Mining Day conference provides networking opportunities with industry professionals

Fieldwork/Placement

There is a field school for 10 days following the end of the second semester.

An optional Co-op Placement is may be available for up to 16 weeks following fourth semester.

4D Learning Opportunities

Mining Day Conference – Each year, Cambrian College, Laurentian University, and Collège Boréal students spend the day networking with industry guest speakers and hearing about the latest trends and issues in the mining industry.

Accreditation

Cambrian's Mining Engineering Technology program is accredited by Technology Accreditation Canada (TAC), which includes the curriculum of the Mining Engineering Technician program.

In addition, our graduates are recognized by The Ontario Association of Certified Engineering Technicians and Technologists (OACETT), which

will give you access to career development opportunities and a national network of engineering professionals.

Quick Links

How to Apply (<http://cambriancollege.ca/apply>)

Engineering Technology (<http://cambriancollege.ca/field-of-study/engineering-technology>)

Admission Requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C), (U), or (M)
- Any grade 12 mathematics (C) or (U) (MCT4C is highly recommended)

Recommended:

- Any grade 12 physics (C) or (U)
- Computer competency in relevant software

APPLY NOW! (<http://ontariocolleges.ca/apply>)

Program Delivery

2019-2020

This program will be delivered in the following terms:

Fall Term Start

1. **SEMESTER 1** Fall 2019
2. **SEMESTER 2** Winter 2020
3. **SEMESTER 3** Fall 2020
4. **SEMESTER 4** Winter 2021

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule>) on our website.

Program of Study

Students are required to successfully complete an online Lab Safety course (in Moodle) when starting their program at Cambrian. This course must be completed prior to entering the labs (as identified in the table below) in the Schools of Skills Training, Engineering Technology and Environmental Studies.

Semester 1		Credits
ENG 1002	College Communications	3
GEO 1100	Geology I ¹	4
MNG 1100	Introduction to Mining ¹	4
MTH 1050	Algebra I	3
SUR 1115	Surveying I ¹	4
CHM 1206	Chemistry for the Geosciences	3
The following General Education course:		3
BUS 1015	Negotiation & Labour Relations	
		Credits
		24

Semester 2

CAD 1001	Engineering Graphics	3
ENG 1754	Technical Communication	3
GEO 1200	Geology II ¹	4
MNG 1014	Mineral Resources Field Camp ¹	1

MNG 1200	Mining Methods ¹	4
MTH 1250	Algebra II	3
SUR 1225	Mine Surveying ¹	5
Credits		23
Semester 3		
GEO 2305	Geological Field & Data Collection ¹	5
GEO 2307	Digital Map Making	2
MNG 2335	Mine Layouts and Planning	5
MTH 2325	Technical Math III	3
One of the following Elective courses:		4
GEO 2311	Exploration Geophysics ¹	
MNG 1019	Maintenance Planning	
One of the following General Education courses:		3
POL 1500	Canadian Political Studies	
SOC 1007	Introduction to Indigenous Studies	
BUS 3585	Entrepreneurship	
SSC 1000	Media and Current Events	
Credits		22
Semester 4		
GEO 2420	Intro To Structural Geology ¹	4
MNG 1015	Ground Control ¹	4
MNG 2300	Mine Blasting Techniques ¹	4
MNG 2310	Mine Ventilation ¹	4
One of the following Elective courses:		4
CHM 1109	Mineral Processing ¹	
GEO 2434	Mineral Resource Evaluation ¹	
One of the following General Education courses:		3
ECN 1002	Economics	
PSY 2700	Client Comm. & Leadership Develop	
BUS 3585	Entrepreneurship	
SSC 1000	Media and Current Events	
Credits		23
Total Credits		92

¹ Course with Lab Component

Fees

Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students

Books & Supplies

The cost of books and supplies for Year 1 is approximately \$1,500, including \$500 for Personal Protective Equipment. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

Furthering Your Studies

Graduates of Cambrian's MNTN program may apply to enter directly into Semester 5 of the Mining Engineering Technology (MNTY) program. This is a competitive process.

Employment Opportunities

Graduates may find employment in mineral resources exploration or in the operations of surface or underground mines. Graduates may be employed in a mine engineering office or in mine production. Some graduates may find work in more specialized areas such as:

- Mine Surveying
- Ground control
- Mine ventilation
- Mine safety
- Field exploration
- Mine Geology
- Mine Planning

Graduates of this program may apply to continue into Cambrian College's Mining Engineering Technology advanced diploma program or seek job opportunities in the mining and mineral resources industry.

Contacts

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