MINING ENGINEERING TECHNOLOGY (MNTY)

Learn in Sudbury – work for mining operations anywhere in the world

Based in Sudbury, one of the nickel mining capitals of the world, our nationally accredited three-year program is guided by industry-experienced faculty members and is the only one of its kind in Ontario. You'll gain the solid foundation and hands-on experience to become a crucial component of underground or open-pit mine engineering teams worldwide that are responsible for a wide range of projects, from surveying to geological and geotechnical fieldwork to project management and mine safety.

Your third year includes advanced courses that develop skills in scheduling and estimating, mine ventilation and services, and project management, a skill set highly valued in the industry. You'll complete a 14-week co-op placement in the final semester. Accredited by Technology Accreditation Canada (TAC), graduates are recognized by the Ontario Association of Certified Engineering Technicians and Technologists (OACETT).

Program highlights

- · Only Mining Engineering Technology program in Ontario
- Field trips to mine sites and/or mining suppliers when available
- Accredited by TAC and recognized by OACETT, giving you access to career development opportunities and national network of engineering professionals
- · 14-week co-op
- Common first and second year with Cambrian's Mining Engineering Technician program
- Third year includes advanced courses in project management and technical reports
- Grads are eligible to join the Ontario Association of Certified Engineering Technicians and Technologists (OACETT) and the Canadian Technical Employment Network (CTEN)

Program of study for 2025-26 Academic Year

Students are required to successfully complete an online Lab Safety course (in Moodle) when starting their program at Cambrian. This course <u>must</u> 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
CHM 1206	Chemistry for the Geosciences	3
ENG 1002	College Communications	3
GEO 1100	Geology I ¹	4
MTH 1050	Algebra I	3
MNG 1111	Introduction to Mining	4
MNG 1130	Surveying I - Mining	4
One General Education course. ²		3
	Credits	24
Semester 2		
ENG 1754	Technical Communication	3
GEO 1225	Geology II	4

	Total Credits	129
	Credits	13
TEC 3601	Technical Report	1
MNG 3650	Mining Co-op Placement	12
Semester 6		
	Credits	22
TEC 3501	Technical Report Research	1
MNG 3547	Applied Mine Design ¹	4
MNG 3531	Mine Scheduling & Estimating ¹	4
MNG 3515	Mining Project Management	3
MNG 3501	Mine Services and Vent II	4
MNG 3410	Applied Geomechanics	3
MTH 2332	Applied Calculus	3
Semester 5	Greats	22
One General Education Coul	Credits	3 22
MNG 2455 One General Education coul	Mineral Resources Economics	3
MNG 2460	Applied Mine Survey and GIS	3
MNG 2450	Ground Control	3
MNG 2440	Mine Ventilation	4
MNG 2306	Mine Blasting Techniques	3
GEO 2445	Intro To Structural Geology	3
Semester 4	Intro To Ctrustural Coolegy	0
	Credits	23
One General Education cou	rse. ²	3
MNG 2341	Mine Layouts and Planning 1	4
MNG 2340	Technical Computer Applications 1	3
MNG 2301	Mining Health and Safety ¹	3
MTH 2325	Technical Math III	3
ISP 3026	Spreadsheets for Business	3
GEO 2315	Geological Fieldwork	4
Semester 3		
	Credits	25
MNG 1114	Mineral Resources Field Camp	2
MNG 1231	Surveying II - Lab	3
MNG 1230	Surveying II - Theory	3
MNG 1202	Mine Engineering Graphics	3
MNG 1200	Mining Methods ¹	4

¹ Course with Lab Component

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

For more information regarding General Education courses, click here (https://cambriancollege.ca/general-electives/).

Additional admission requirements

Recommendations

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

Program delivery

2025-2026 Fall term start

SEMESTER 1: Fall 2025 SEMESTER 2: Winter 2026 SEMESTER 3: Fall 2026 SEMESTER 4: Winter 2027 SEMESTER 5: Fall 2027 SEMESTER 6: Winter 2028

Specific program pathways

College or university degree opportunities

If you are a graduate of this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreement (https://cambriancollege.ca/supports-services/articulation-agreements/universities-in-canada/) details for further information.

Employment opportunities

Graduates may find employment in the operations of all sizes of underground or open pit mines and may be employed in the mine engineering office or in mine production as a supervisor. There may also be opportunities working in the mine services sector.

Some graduates may work in more specialized areas such as:

- · Rock mechanics
- · Mine ventilation
- Project management
- · Mine safety
- · Technical sales
- Mine supervision
- · Mine administration/contracts

Graduates may elect to work overseas. A career in mining may offer travel opportunities, varied living environments, and experience with other cultures and people.

Contacts

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INTERNATIONAL ADMISSIONS

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