CIVIL ENGINEERING TECHNOLOGY (CVTY)

Create your vision of how the world should be constructed

Our nationally-accredited program prepares you to become a working member of civil engineering teams across Canada that are responsible for building, maintaining, and restoring roads, bridges, buildings, water distribution systems, and pipelines. Make your vision a reality with courses focused on applying professionalism towards design, drafting, supervision of projects, interpretation of data, cost estimating, scheduling, asset management, project management, feasibility studies, surveying, and technical report writing.

You'll gain hands-on experience in Cambrian's Geographic Information Systems (GIS) and Computer-Aided Drafting (CAD) laboratories. You'll use cutting-edge technology to learn surveying and drafting. Upon graduation, you qualify to work anywhere in Canada.

Program highlights

- Nationally-accredited program through Technology Accreditation Canada (TAC)
- · Learn from industry-experienced faculty in modern labs
- Common first and second year with Cambrian's Civil Engineering Technician program
- Field trips to local civil engineering companies and completed work sites
- Hands-on experience in Geographic Information Systems (GIS) and Computer-Aided Drafting (CAD)
- Opportunity to gain summer employment through the Infrastructure Opportunities Partnership (IOP) and Municipal Engineering Opportunities Partnership (MEOP)
- Grads may be eligible to join the Ontario Association of Certified Engineering Technicians & Technologists (OACETT) and the Canadian Technical Employment Network (CTEN)

Program of study for 2024-25 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
CIV 1200	Concrete & Asphalt ¹	4
CIV 2331	Construction Technology	4
ENG 1002	College Communications	3
MTH 1050	Algebra I	3
SUR 1116	Surveying I 1	5
One General Education course. ²		3
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One General Education coul	Credits	22
Semester 2		
Semester 2	Credits	22
Semester 2 CAD 1001	Credits Engineering Graphics	22 3

	Total Credits	132
	Credits	20
TEC 3601	Technical Report	1
MTH 2332	Applied Calculus	3
GIS 3600	GIS Applications	3
CIV 3640	Highway Design	4
CIV 3630	Reinforced Concrete	4
CIV 3600	Foundations	5
Semester 6		
	Credits	23
CIV 3511	Infrastructure Asset Management	3
TEC 3501	Technical Report Research	1
CIV 3560	Construction Project Management	3
MCH 2410	Strength Of Materials II	4
CIV 3510	Structural Design	4
CIV 2430	Municipal Services	4
CIV 2410	Soil Mechanics II	4
Semester 5		
	Credits	22
One General Education cour		3
CIV 3520	Contracts Law & Specifications	4
CIV 3500	Special Projects ¹	4
CIV 2404	Computer Aided Structural Detailing	3
CIV 2403	Structural Behaviour & Detailing	4
CIV 2431	Municipal Planning	4
Semester 4	Credits	22
ENV 1027	Sustainable Practices	3
MTH 2325	Technical Math III	3
MCH 2310	Strength Of Materials I	4
CIV 2421	Basic Hydraulics	3
CIV 2302	Civil Engineering Applications	3
CIV 2300	Soil Mechanics I	4
CAD 1200	Computer Aided Drafting II	2
Semester 3		
	Credits	23
One General Education cour	se. ²	3
SUR 1232	Survey Field Methods	1
0115 1000		

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)
- · Computer competency in relevant software

Program delivery

2024-2025

Fall term start

SEMESTER 1: Fall 2024 SEMESTER 2: Winter 2025 SEMESTER 3: Fall 2025 SEMESTER 4: Winter 2026 SEMESTER 5: Fall 2026 SEMESTER 6: Winter 2027

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/) details for further information.

Employment opportunities

Graduates are prepared for employment opportunities with:

- · Consulting engineering firms
- · Municipal engineering offices
- · Construction firms
- · Manufacturing organizations
- · Provincial and Federal Government agencies
- · Inspection and testing companies

For more information about Civil Engineering as a career, including employment opportunities, and more, visit Ontario Civil Construction Careers Alliance (http://www.myocca.ca/).

Contacts

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INTERNATIONAL ADMISSIONS

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