

# CIVIL TECHNOLOGY

## MUNICIPAL ENGINEERING SPECIALIZATION

**2-YEAR  
DIPLOMA**

Take your skills and knowledge to another level and experience real-world applications in research, planning, drafting and project management.

### Why should you choose Civil Technology with a Municipal Engineering Specialization?

#### **1 Enhance your knowledge**

This two-year diploma specialization provides students who have completed their Civil Technician certificate with an opportunity to learn about civil technology in greater detail. Learn about terrain analysis, fluid mechanics, geotechnical materials, groundwater flow and analysis, roadway design, and water and wastewater piping system design—all with an emphasis on project management.

#### **3 Learn the management side**

Enhance your technical skills in surveying and AutoCAD and learn how environmental features like construction and water affect infrastructure. In this program, you will focus on project management, planning and communication to ensure you are ready for the career responsibilities in this field.

#### **2 Build on your skillset**

Students will use the drafting and problem-solving skills learned in the Civil Technician certificate to develop real industry infrastructure designs and plans that could be built in the field. Throughout your final year, plan and create an Applied Research Project using the skills you've honed throughout the program. Participate in two co-operative work placements and gain experience in real-life industry conditions.

#### **4 Construct your career**

Graduates may pursue careers in surveying, materials testing, drafting and report preparation. Career opportunities may be in the field or in an office environment helping technologists and engineers design and construct infrastructure related projects.

#### **FULL-TIME, ON-CAMPUS TIMELINE:**



Program delivery options:



Victoria Avenue East Campus

## CAREER OPPORTUNITIES

Graduates find employment with consulting engineering and architectural firms, construction and development companies, inspection and testing agencies, manufacturers, fabricators and material suppliers, as well as with various departments of municipal, provincial and federal government services.

## ADMISSION REQUIREMENTS

- Civil Technician certificate from Assiniboine Community College. Applicants with a Civil Technician certificate from other post-secondary institutions will be assessed on a case-by-case basis.

English is the language of instruction at Assiniboine.

All applicants educated outside of Canada or in a country not on the test exempt list are expected to meet the English language proficiency requirement. See [assiniboine.net/elp](http://assiniboine.net/elp) for more information.

## TECHNOLOGY REQUIREMENTS

Programs at Assiniboine have certain technology requirements. Students require access to computer devices at home and may be required to bring these on campus when instructed. Refer to [assiniboine.net/tech](http://assiniboine.net/tech) for more detailed information about the requirements for this program.

## UNIQUE LEARNING EXPERIENCES

- Membership or advanced standing with professional organizations
- Co-op work experience
- Emphasis on practical, applied learning

## GRADUATION REQUIREMENTS

To graduate with a Civil Technology - Municipal Engineering specialization diploma, students must successfully complete 112.5 academic credits and 12 practical credits over two years. Courses are offered in alternate years or a block.

The minimum passing grade for each course is indicated on the course outline.

## PROGRAM FEES (DOMESTIC ONLY)

Tuition, fees and Students' Association fees total approximately **\$7,818**.

Estimated cost for books and supplies is **\$1,020**.

*All fees are estimated and subject to change without notice.*

## COURSES 2021-22

NUMBER	COURSE TITLE	CREDITS
<b>GROUP A</b>		
MATH-0084	Calculus and Statistics	9
COOP-0028	Co-op Work Placement - CVLTM	12
ENGR-0039	Geotechnical Materials 1	9
SCIE-0078	Hydromatics	9
COMP-0514	Municipal Computer Apps	7.5
BUSN-0151	Project Administration	9
ENGR-0040	Roadway Design 1	7.5
SCIE-0079	Terrain Analysis	6
<b>GROUP B</b>		
BUSN-0153	Applied Research Project	6
BUSN-0152	Economics/Management	6
ENGR-0041	Geotechnical Materials 2	9
SCIE-0080	Hydrology	7.5
ENGR-0042	Pavement Mix Design	9
ENGR-0043	Roadway Design 2	9
SCIE-0081	Water and Waste	9
* Program scheduling and availability is subject to change.		

*Note: Timelines, applicable industry experience, and teaching methodology will depend on program delivery choice; program information sheets subject to change without notice. Visit [assiniboine.net](http://assiniboine.net) for the most up-to-date information.*

## NEXT STEPS

Apply now! Visit [assiniboine.net/applynow](http://assiniboine.net/applynow).  
For more information on this program,  
visit [assiniboine.net/civiltechnology](http://assiniboine.net/civiltechnology).