



**RUSS EDWARDS  
SCHOOL**  
Agriculture & Environment

Eligible for  
**FINANCIAL AID  
& AWARDS**

# CIVIL TECHNOLOGY

## MUNICIPAL ENGINEERING SPECIALIZATION

**2-Year Diploma**

Elevate your expertise to tackle advanced design and technical roles while gaining hands-on experience in data analysis, digital technologies, project management, quality control, and sustainable practices.

### PROGRAM LEARNING OUTCOMES

- ▶ Collect, process, analyze, and coordinate technical data to produce written and graphical project-related documents.
- ▶ Use industry-specific electronic and digital technologies to support civil engineering projects.
- ▶ Participate in the design and modeling phase of civil engineering projects by applying engineering concepts, technical mathematics and principles of science to the review and production/modification of project plans.
- ▶ Contribute to the scheduling and coordination and cost estimation of civil engineering projects to monitor their progression by applying principles of construction project management.
- ▶ Coordinate and perform quality control testing; evaluate equipment, materials and methods used in the implementation and completion of civil engineering projects.
- ▶ Complete duties and monitor that work is performed in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the civil engineering field.
- ▶ Promote and carry out sustainable practices in accordance with contract documents, industry standards and environmental legislative requirements.
- ▶ Facilitate the collaboration and interaction among the project team and project stakeholders to support civil engineering projects.
- ▶ Apply teamwork, leadership, supervision, and interpersonal skills when working individually or within multidisciplinary teams to complete civil engineering projects.
- ▶ Develop and use strategies to enhance professional growth and ongoing learning in the civil engineering field.
- ▶ Comply with workplace health and safety practices and procedures in accordance with current legislation and regulations.



**Campus/Delivery Options**  
Victoria Avenue East campus



**Available Intakes**  
November



**Work Integrated Learning**  
16 weeks/480 hours

## You might be a good fit for this program if you would enjoy:

- ▶ Building on your Civil Technician certificate for career advancement to technologist level.
- ▶ Learning advanced theory and practical technology skills, including computer-aided design and modeling, field surveying, 3D modeling, and laboratory testing.
- ▶ Project management, team environments, and leadership challenges.
- ▶ Being part of major infrastructure projects across the region and in your community.

## EXPECTATIONS Program & Industry

- ▶ Work in a variety of environments, including laboratories, offices and industrial areas and working conditions may include a combination of indoor and outdoor work.
- ▶ Work outdoors which could include conducting field inspections or investigating topography, soil, drainage and water supply systems, road and highway systems, or buildings and structures.
- ▶ Keep up with technological advances in surveying, environmental monitoring, data management, and civil design that has allowed for work to be completed more quickly than in the past.
- ▶ Prepare for environmental conditions and potential hazards from equipment and construction materials when performing field work.
- ▶ With experience, civil engineering technologists can progress to construction supervisors, project engineers or managers, construction estimators, or construction managers.

- ▶ A valid driver's license and access to a vehicle is strongly recommended given the need to travel for co-op placement.

## CAREER OPPORTUNITIES

- ▶ Engineering and architectural firms
- ▶ Manufacturers construction and development companies
- ▶ Inspection testing agencies
- ▶ Material suppliers
- ▶ Departments within government

## ADMISSION REQUIREMENTS

- ▶ Civil Technician certificate from Assiniboine College.

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

# NEXT STEPS

## SPEND A DAY WITH US

Our Spend a Day program runs from November to March for most programs. When you spend a day at Assiniboine, we partner you with a current student in the program of your choice so you have the opportunity to:

- ▶ Participate in classroom activities
- ▶ Experience college life
- ▶ Explore all of our helpful services for students
- ▶ Meet current college students and instructors
- ▶ Enjoy a free lunch on us!

[assiniboine.net/spendaday](http://assiniboine.net/spendaday)

Confidence in the career path you choose to embark on is key and selecting the right program for you is the first step. At Assiniboine, we offer an opportunity to explore and experience a program before applying. Choose to:

## ATTEND AN INFO SESSION

Join our free live online info sessions to get the inside scoop on your program of interest and life at Assiniboine. Register in advance and log in from home to learn about Assiniboine.

[assiniboine.net/infosessions](http://assiniboine.net/infosessions)

Ready to Start?  
**APPLY NOW!**



[assiniboine.net/civiltechnology](http://assiniboine.net/civiltechnology)