



# CIVIL TECHNICIAN

**1-YEAR  
CERTIFICATE**

Ready to design the future? Develop your problem-solving skills and strengthen your career through drafting, surveying and computer-aided design skills.

## Why should you choose career as a Civil Technician?

### **1** Build your community

Learn the basics of civil engineering technology in this certificate program. Be a part of designing the future: bridges, highways, dams, parks, sewer systems—just a few of the systems that affect our lives. You will develop skills in computer-aided design (CAD), land and construction surveying, drafting fundamentals, and basic design concepts for residential construction.

### **3** Draft solutions

If you are a natural problem solver and passionate about finding hands-on solutions, this is the program for you. Small class sizes, dedicated instructors and industry connections prepare you for an exciting career as a civil technician.

### **2** Bridge theory with experience

Through lab work and projects, you will be able to design infrastructure projects for the cities and towns you live in. Whether you want to invent a new solution or research existing solutions for longstanding problems, you will find that your practical experience can make life better where you live.

### **4** Kick it into high gear

As a graduate, you will have plenty of employment opportunities. We prepare you to be influential contributors to the civil engineering field. You will graduate with both technical and practical experience and be prepared to work in either public or private industry.

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

**SEPTEMBER**  
Fall term begins

**JANUARY**  
Winter term begins

**MAY**  
Work placement

**JUNE**  
Graduation

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

- A complete Manitoba Grade 12 or equivalent
- English 40G/40S or equivalent
- Pre-Calculus or Applied Mathematics 40S or equivalent with a minimum mark of 65%

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.

## UNIQUE LEARNING EXPERIENCES

- Emphasis on practical, applied learning
- Work on AutoCAD
- Gain surveying experience

## GRADUATION REQUIREMENTS

To graduate with a Civil Technician certificate, students must successfully complete 76.5 academic credits and 12 practical credits. Graduates are eligible to continue with their studies in the Civil Technology - Municipal Engineering specialization diploma program at Assiniboine.

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

## CONNECTIONS

Graduates of Assiniboine's program may be eligible for advanced standing towards Red River College's Civil Engineering Technology diploma program.

Most of the diploma programs are provincially accredited by the Certified Technicians and Technologists Association of Manitoba (CTTAM) and nationally accredited by the Canadian Council of Technicians and Technologists (CCTT).

## PROGRAM FEES (DOMESTIC ONLY)

Tuition, fees and Students' Association fees total approximately **\$6,340**.

Estimated cost for books and supplies is **\$870**.

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

## COURSES 2020-21

NUMBER	COURSE TITLE	CREDITS
MATH-0093	Algebra (Civil)	6
COMP-0200	AutoCAD 1 (Civil)	6
COMP-0201	AutoCAD 2 (Civil)	6
SCIE-0085	Chemistry 1 (Civil)	3
SCIE-0086	Chemistry 2 (Civil)	4.5
COMM-0138	Communications (Civil)	3
ENGR-0004	Construction Materials/Safety	6
COOP-0014	Co-op Work Placement - CVLTC	12
DRFT-0011	Drafting Fundamentals (Civil)	9
ENVR-0020	Environment, Ethics and Society	3
WRKP-0035	General Safety Training	0
MATH-0041	Geometry (Civil)	6
MECH-0068	Mechanics (Civil)	6
COMM-0139	Report Writing (Civil)	3
ENGR-0003	Strength of Materials 1	3
ENGR-0001	Surveying 1	6
ENGR-0009	Surveying 2	6
HLTH-0047	WHMIS 1	0

*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/civiltechnician](http://assiniboine.net/civiltechnician).