ASSINIBOINE COMMUNITY COLLEGE

COMMUNICATIONS ENGINEERING TECHNOLOGY

2-YEAR DIPLOMA

Take your interest in technology to the next level. Design, manufacture and install the most up-to-date communications systems that keep us linked together.

Why should you choose a career in Communications Engineering Technology?

1 Combine theory with experience

It's a real concept and has real-world application. The internet (IOT) is the physical network of devices, appliances, vehicles and other items that integrate and connect to exchange data and make our lives run smoother, easier and more efficiently. In this program, you'll be at the centre of creating and supporting it.

2 A multi-dimensional approach

Learn to support the design, development and repair of communication systems, such as voice, video, data, wi-fi and Bluetooth, through this accredited two-year program. You will graduate with the skills necessary to create, manufacture, install and analyze different types of communication technologies.

3 Connect to what matters

There are industry opportunities for you through our Institute of Electrical and Electronic Engineers student branch, Cisco Networking Systems partnership and CTAB accreditation. Assiniboine even has a connection to the Canadian Forces, where you can be accredited as a Weapon Engineering Technician.

4 Plug-in to industry demand

Find employment opportunities in fields like computer-aided design, electronic design and repair, computer programming, network design, communications installation or design. In recent years, almost all of our students were offered jobs within nine months of graduation.

FULL-TIME, ON-CAMPUS TIMELINE:

SEPTEMBER	JANUARY	SEPTEMBER	JANUARY	JUNE
Year 1 fall term begins	Winter term begins	Year 2 fall term begins	Winter term begins	Graduation

Program delivery options: Victoria Avenue East Campus

CAREER OPPORTUNITIES

Graduates are prepared for careers as engineering technologists in the communications industry in areas such as computer-aided design, electronic design and repair, computer programming, network design, communication systems installation or design or project management.

ADMISSION REQUIREMENTS

- A complete Manitoba Grade 12 or equivalent
- English 40G/40S or equivalent
- Pre-calculus or Applied Mathematics 40S or equivalent

Applicants who have Mathematics 40G, Mathematics 301 or Consumer/Essential Mathematics 40S will be required to write a mathematics assessment test to assess their eligibility for admission.

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** for more information.

UNIQUE LEARNING EXPERIENCES

- Well-equipped, modern laboratories
- On campus student branch of the Institute of Electrical and Electronic Engineers (IEEE) — a network of college and university students and industry professionals
- Nationally accredited program opens employment doors for graduates
- Measure performance of wireless signals

GRADUATION REQUIREMENTS

To graduate with a Communications Engineering Technology diploma, students must successfully complete 144 academic credits. Students may choose to exit after year one with an Electronic Technician certificate if they successfully complete 72 academic credits.

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

CONNECTIONS

The Communications Engineering Technology program is nationally accredited by the Canadian Technology Accreditation Board (CTAB). CTAB provides national evaluation of applied science and engineering technology programs in Canada.

NEXT STEPS

Apply now! Visit **assiniboine.net/applynow**.
For more information on this program, visit **assiniboine.net/cet**.

Assiniboine has a number of agreements with other colleges, universities and professional organizations, making it possible for students to apply credit taken at Assiniboine to programs at other institutions. For up-to-date information on agreements, visit **assiniboine.net/registrar** or the program page.

PROGRAM FEES (DOMESTIC ONLY)

Tuition, fees and Students' Association fees total approximately **$5,400** for year one and **$5,510** for year two.

Estimated costs for books and supplies are **$1,240** for year one and **$660** for year two.

All fees are estimated and subject to change without notice.

COURSES 2020-21

NUMBER	COURSE TITLE	CREDITS
YEAR ONE		
ELTE-0077	Cabling and Installation	3
ELTE-0087	Communication Circuits	3
COMP-0439	Computer Programming 1	3
COMP-0440	Computer Programming 2	3
ELTE-0052	Digital Circuits	6
ELTE-0053	Electric Circuits 1	6
ELTE-0054	Electric Circuits 2	6
ELTE-0073	Electronic Circuits 1	6
ELTE-0056	Electronic Circuits 2	6
ELTE-0058	Instruments and Measurements 1	3
ELTE-0088	Manufacturing Techniques	3
ELTE-0059	Micro-Controller Systems	6
COMP-0410	Network Fundamentals	6
COMP-0441	Network Routing	6
MATH-0063	Technical Math	3
COMM-0178	Technical Writing	3
YEAR TWO		
ELTE-0061	Antennas & Transmission Lines	6
ELTE-0062	Broadband Systems	6
MATH-0061	Calculus	3
ELTE-0080	Communications Systems	6
ELTE-0063	Communications Theory	6
ELTE-0078	Embedded Systems	6
ELTE-0082	Emerging Technologies	6
ENVR-0020	Environment, Ethics & Society	3
ELTE-0065	Instruments and Measurements 2	3
BUSN-0128	Project Management	3
COMM-0270	Report Writing	3
ELTE-0084	Technical Project	9
ELTE-0089	Voice Communications	3
ELTE-0085	Wireless Data Systems	3
ELTE-0086	Wireless Systems	6

*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** for the most up-to-date information.*

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