Electronics Engineering Technician - Computers

CREDENTIAL	PROGRAM CODE	AREA OF INTEREST	LOCATION	DURATION
Ontario College Diploma	Fall: 0316| Winter: 0328	Engineering Technology	Thunder Bay	2 -year

Overview

Our networked world is becoming more connected all the time. Not just the Internet – HVAC systems, manufacturing robots, industrial processes and a thousand other systems rely on electronic components to keep them operating and talking to each other.

But it still takes a person to install and maintain the hardware and software needed to keep it all running smoothly. Could that person be you?

Confederation College's Electronics Engineering Technician – Computers two-year diploma program will give you the foundation you need to find a job in this growing field. You'll learn about electronics and computer fundamentals, applied mathematics, telecommunications, networks, automation control systems and computer software.

Top Highlights

- Learn how to install, interconnect, configure, implement, and troubleshoot network systems
- Work with hardware wiring centres, routers, voice network hardware
- Two optional co-op work placements give you experience in the field
- Subsidized education program available

Employment Opportunities

Graduates of the program usually go on to positions in network installation or repair and maintenance of electronics equipment. There are a wide range of opportunities including computer networking, industrial systems, heating and cooling systems, telecommunications, security systems, financial services, education, health care, manufacturing and database/information systems.

Graduates of the program can also write for various certifications including Microsoft Certified Professional (MCP) certification, COMPTIA A+, and Net+.

Experiential Learning

Optional Co-op

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Admission Requirements

- Ontario Secondary School Diploma (or equivalent) with courses from the College (C), University (U), University/College (U/C), or Open (O) preparation levels with Grade 12 English (C/U) Level.
- or successful completion of the Mature Student Assessment.
- or successful completion of the General Education Development Test (GED).
- or appropriate credits from the Academic and Career Entrance program (ACE).

Other Courses Required

- Grade 11 MCF3M Functions and Applications, or MCR3U Functions, or Grade 12 MAP4C Foundations for College Math or MCT4C Mathematics for College Technology or University Preparation.

Alternative Pathways

If you do not meet the entrance requirements, we encourage you to apply for the Pre-Technology program-Technology/Aviation to facilitate success in your technology path.

Articulation Agreements

Confederation College has agreements in place that permit credits earned throughout this program to be transferred to programs at other colleges and universities.

Visit: **confederationcollege.ca/articulation-agreements** for more information.

First Semester

CS 050	College Writing
EL 161	Electrical I
EL 165	Digital I
EL 166	Computer Systems
EL 167	Electronics I
GE	General Elective
MA 133	Mathematics I
MC 165	Microsoft Office

Second Semester

CS 219	Communications for Technology
EL 261	Electrical II
EL 267	Electronics II
EL 268	Health and Safety Regulations
EL 269	Introduction to CAD
MA 231	Mathematics II
PH 210	Physics

Select one of the following:

LV 100	History of Indigenous Canadian Relations
SY 066	Sociology of Community: The Indigenous Context

Third Semester

EL 305	Industrial Electronics I
EL 306	Telecommunications
EL 307	Industrial Data Networks
EL 362	Computer Software I
EL 365	Digital II
GE	General Elective
MA 331	Mathematics III

Fourth Semester

EL 405	Industrial Electronics II
EL 406	Embedded Control Systems I
EL 407	Wide Area Networks
EL 431	Automation Control Systems I
EL 460	Computer Networks
EL 612	Quality Assurance
EN 015	Professional Practice

Have questions? Want to apply?

Contact recruitment@confederationcollege.ca

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