

Techniques

Confederation College is located in the city of Thunder Bay, a culturally diverse community that serves as the education and government hub of northwestern Ontario. Located in the heart of one of the finest outdoor recreation and tourism destinations in Canada, Confederation College students enjoy the benefits of living and learning in a community that provides a rich lifestyle right at your doorstep.

At Confederation College we change lives through learning. We are committed to meeting the needs of our learners, employers and communities, and we are here to help you succeed in meeting your life goals. To arrange for a Thunder Bay campus tour call (807) 475-6110 or [book a tour online](#).

CAMPUSES

[Thunder Bay »](#)

1450 Nakina Drive
P.O. Box 398
Thunder Bay, ON
Canada P7C 4W1

[Dryden »](#)

[Fort Frances »](#)

[Geraldton »](#)

[Kenora »](#)

[Marathon »](#)

[Red Lake »](#)

[Sioux Lookout »](#)

[Wawa »](#)

ADMISSIONS

The minimum admission requirement for a postsecondary program is an Ontario Secondary School Diploma, or its equivalent, with minimally 2 senior credits at the college, college/university or university preparation level. Some programs have additional admission requirements. For specific admission requirements, please see the program descriptions included in this publication, visit the [Admissions website](#) or contact our Admissions Office at (807) 475-6213.

SERVICES FOR PROSPECTIVE STUDENTS

Click the title to visit Department webpage:

| | |
|---|----------------|
| Admissions & Recruitment » | (807) 475-6213 |
| Career & Placement Services » | (807) 475-6193 |
| Centre for Continuing Education » | (807) 475-6550 |
| Counselling Services » | (807) 475-6110 |
| Distance Education » | 1-800-563-9435 |
| Financial Aid » | (807) 475-6637 |
| Fitness Centre » | (807) 475-6239 |
| General Inquiry » | (807) 475-6110 |
| Health Centre » | (807) 475-6169 |
| International Students » | (807) 475-6175 |
| Learning Centre » | (807) 475-6618 |
| Library Learning Commons » | (807) 475-6219 |
| Negahneewin College of Academic & Community Development » | (807) 475-6465 |
| Oshki Anishnawbeg Student Assoc. » | (807) 475-6314 |
| Registration Services » | (807) 475-6265 |
| Residence/Housing » | (807) 475-6381 |
| Student Union » | (807) 475-6226 |

Construction Techniques



Construction is occurring all around us no matter where we go or what we do. The construction worker is the backbone of industry whether it be residential, commercial or industrial building. The Construction Techniques program is a one-year certificate program designed to provide you with a relevant knowledge base that can be used throughout the construction industry. If you are interested in practical experience and learning how the construction industry works, this program is for you. Course theory is combined with exercises in the class and working projects in the shop. These include blueprint reading, construction materials and the building process from start to finish. Safety standards are included and followed which will permit you to experience actual working conditions. This type of learning also allows for one-on-one personalized instruction and assists in developing your employable skills. The strength of the Construction Techniques Certificate program is too directly address the coming shortage of skilled trade's professionals in the construction industry in the coming years.

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.
- or successful completion of Mature Student Assessment.
- or appropriate credits from the Academic and Career Entrance program (ACE).

FIRST SEMESTER

| Course Number | Title | Credits |
|---------------|---|-----------|
| TP 131 | Communications I | 3 |
| MA 115 | Applied Mathematics for Technology I | 4 |
| CE 125 | Construction Materials and Methods | 4 |
| CT 120 | Introduction to the Construction Industry | 3 |
| CT 121 | Basic Hand Tools and Safety | 3 |
| CT 122 | Blue Print Reading | 3 |
| | Total | 20 |

SECOND SEMESTER

| Course Number | Title | Credits |
|---------------|--|-----------|
| TP 236 | Writing Strategies - Communications II | 4 |
| MA 215 | Applied Mathematics for Technology II | 3 |
| CD 110 | Computer Aided Drafting | 3 |
| CT 220 | Building Construction Practices | 3 |
| CT 221 | Introduction to Masonry | 3 |
| | Total | 16 |



Course Descriptions

Computer Aided Drafting

CD110

This course introduces the students to the techniques involved in producing drawings by computer, storing the files and outputting the drawings to a plotter. The students gain the basic knowledge and skills in operating a computer keyboard, and screen display in selecting menu items to create and edit a drawing. The student also learns to work from the hard drive, back up files and set the parameters necessary to produce the desired plotted output.

Construction Materials and Methods

CE125

A study of materials, methods and safety practices of the structural elements of residential and light industrial construction. The student will learn to distinguish and explain approved methods for the installation of structural materials as they relate to residential and light industrial construction.

Introduction to the Construction Industry

CT120

This course is designed as an overview to the many components that make up a construction project. Students will appreciate the diversity of skill sets of many different specialized individuals in the Construction Trades. Students will be shown the process from planning to execution of small to large sized construction projects.

Basic Hand Tools and Safety

CT121

This course is designed with an emphasis on safety while ensuring that students are introduced and able to apply some of the most common tools used in the construction trades. There will be an emphasis on time spent in the lab and basic construction materials will be consumed while tools such as drills, saws, hammers, measuring devices, and sanders. Students will come to respect the potentials for danger around a typical construction job site.

Blue Print Reading

CT122

The basic skill of reading a blue print plan of a construction project remains an important skill to those working in the construction trades. Students will explore the basic components of blue print plans and acquire the skills of visualizing a finished product with the aid of a blue print plan. Students will demonstrate mathematical skills when estimating projects from the use of the plans.

Applied Mathematics for Technology I

MA115

This course is designed to emphasize the secondary school mathematics required for entrance into a post-secondary technology program at a community college level. Students will have the opportunity to further develop mathematical problem solving techniques as applied to the different technical areas. After successful completion of this course, the student will be able to solve applications involving numeracy, measurement and units, basic geometry and basic algebra. Successful completion of this course (minimum C grade) and MA 215 (minimum C grade) is an equivalent credit to the first semester technology mathematics course, MA 131.

Applied Mathematics for Technology II

MA215

This course is designed to emphasize the secondary school mathematics required for entrance into a post-secondary technology program at a community college level. Students will have the opportunity to further develop mathematical problem solving techniques as applied to the different technical areas. After successful completion of this course, the student will be able to solve applications involving basic algebra, graphing, geometry, trigonometry and vectors. Successful completion of MA115 (minimum C grade), the prerequisite for this course, and this course (minimum C grade) is an equivalent credit to the first semester technology mathematics course, MA131.

Communications I

TP131

In this course, students will reinforce English language skills through a co-ordinated program of listening, speaking, reading, and writing. The students will place special emphasis on the development of skills necessary for effective communications in the various fields of technology or trades and will use microcomputers for writing assignments.

Writing Strategies - Communications II

TP236

This course is designed to provide the Pre-Technology/Pre-Skills learner with the fundamental written communication skills required in the workplace today. The learner studies the process of communication with its inherent problems, strategies to overcome these problems, planning techniques, basic and specialized writing skills required for effective writing such as defining, outlining, summarizing, and developing persuasive arguments. The learner will also be introduced to writing research reports.
