

CARPENTRY TECHNIQUES

Program Outline

Major:	CART
Length:	1 Year
Delivery:	2 Semesters
Credential:	Ontario College Certificate
Effective:	2014-2015
Location:	Barrie, Muskoka, Owen Sound
Start:	Fall (Barrie, Muskoka, Owen Sound)

Description

This program provides graduates with occupational skills for employment in the construction industry. Scope of the program includes surveying, formwork, framing, interior and exterior finish. In addition, students study theory and applications based on safe practice, building codes, and energy efficiency.

Career Opportunities

Our graduates enjoy success as employees in residential, commercial and industrial construction, as well as the renovation field. Potential opportunities may include General Carpenter, Trim Carpenter or Form Work Carpenter.

A graduate may wish to discuss the possibility of eligibility for apprenticeship credits into the General Carpentry apprenticeship program with the Ministry of Training Colleges and Universities.

Research indicates that demand in Canada for individuals with these skills is currently high. If this trend continues it is expected that opportunities should abound.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

- identify, select and safely use tools to complete a given task to supplied specifications, codes and/or instructions;
- evaluate, select and apply the appropriate construction material and fastening systems for a specific use in the industry;
- utilize the standards set forth in the Ontario Building Code for all types of construction
- apply the basic principles of drafting in the interpretation and production of sketches, including survey and plot plans, architectural, mechanical, and electrical drawings;
- apply a variety of mathematical concepts and techniques to situations relative to the construction field;
- apply the principles of energy conservation to residential, commercial and industrial projects;
- recognize the interdependence among the trades on site, so that project completion is facilitated.

The Program Progression:

Fall Intake - Barrie, Muskoka, Owen Sound

Sem 1 | Sem 2

Fall | Winter
2014 | 2015

Admission Requirements:

You must meet ONE of the following requirements to be eligible for admission to these programs:

Secondary school applicants:

- OSS curriculum: OSSD or equivalent, with Grade 12 English (C) or (U) (ENG4C, ENG4U)

Non-Secondary school applicants (19 years or older):

- Any credit Communication course taken at Georgian College
- Most college preparatory programs including those taken at Georgian College: Technology Foundation, Technology Fundamentals and General Arts and Science*
- Equivalent courses in English taken through secondary school or Independent Learning Centres (at the general, advanced, college or university level)
- Academic and Career Entrance Certificate (ACE) program with communications

- Mature student testing in English that meets the minimum standards for admission (available through most testing services)*
- Ontario High School Equivalency Certificate (GED)
- English, Literature or Communication credit courses from accredited colleges/universities

Home school applicants:

- Applicants can write the mature student testing in English that meets the minimum standards for admission (available through testing services)*

* available from Georgian College. For a complete listing please contact the Office of the Registrar.

Non-secondary school applicants who are 19 years of age or over by the first day of classes, and who lack the academic entrance qualifications, may be considered for entrance to an appropriate post-secondary diploma or certificate program as mature applicants. Mature applicants must meet all program specific prerequisites including all selection criteria; equivalencies are stated above. Applicants who are unsure whether they meet admission requirements should contact the Office of the Registrar. In addition, those applying as mature students and having no documentation of Grade 12 education must supply, if required, proof of age, such as a copy of an official birth certificate or driver's licence. Refer to Section 2.5 and 2.6 of the Academic Calendar for further details.

Credit transfer and course exemptions:

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may be eligible for credit transfer/course exemptions. Courses/experience must match at least 80% of the learning outcomes of a Georgian College course with a minimum grade of 60% or C achieved in previous coursework; some program exceptions apply (see program outline). For further information please visit the Credit Transfer Centre website: georgiancollege.ca/admissions/credit-transfer/

Graduation Requirements:

- 9 Mandatory Courses
- 1 Communications Course
- 1 General Education Course

Graduation Eligibility:

To graduate from this program, the passing weighted average for promotion through each semester, and to graduate is 60%. Additionally, a student must attain a minimum of 50% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester unless otherwise stated on the course outline.

Mandatory Courses

CART1000 Carpentry Fundamentals
CART1001 Applied Carpentry Fundamentals
CART1002 Advanced Framing
CART1004 Trim Carpentry Theory
CART1006 Drafting / CAD
CART1007 Blueprint Reading
CART1009 Formwork and Framing
CART1010 Applied Carpentry Applications
MATH1007 Mathematics Techniques

Communications Course

To be selected at time of registration from the College list, as determined by testing.

General Education Course

To be selected from College list

Course Descriptions:

CART1000 Carpentry Fundamentals 84.0 Hours

Students study applications and operations of standard safety procedures. This includes layout and building code applications for framing, building materials, and energy efficient construction. Basic formwork, surveying equipment and techniques are examined.

CART1001 Applied Carpentry Fundamentals 84.0 Hours

This practical course involves the safe use of hand and stationary tools. Students participate in several site survey exercises. A framing project will also be completed.

CART1002 Advanced Framing 42.0 Hours

Students study wood frame construction. Trusses and renovation techniques are also explored. Safe and correct erection of scaffolds and ladders is demonstrated.

CART1004 Trim Carpentry Theory 84.0 Hours

This course is designed to familiarize students with interior and exterior finish. Materials, tools, and methods are analyzed.

CART1006 Drafting / CAD 42.0 Hours

Students interpret architectural drawings, and apply these skills through the use of software, to develop house plans that meet specifications of the building code.

CART1007 Blueprint Reading 42.0 Hours

Students read and interpret architectural drawings for residential and light commercial structures. Students demonstrate a comprehension of design and the building code through the completion of plan, elevation, and section views.

CART1009 Formwork and Framing 84.0 Hours

This practical course involves creation of a framed structure. Basic residential formwork projects are constructed.

CART1010 Applied Carpentry Applications 168.0 Hours

Students will construct complex roofs, stairs, hang doors, and perform many of the duties of a trim carpenter. In addition, exterior finish such as soffit, fascia, and siding are installed.

MATH1007 Mathematics Techniques 42.0 Hours

This is a consolidation and review of the principles and techniques of mathematics, which are required for the technical trades. Developing and promoting the use of mental arithmetic, estimation skills, problem solving, and reasoning skills.

Course Description Legend

P = Prerequisite; C = Concurrent prerequisite; CO= Corequisite

Information contained in College documents respecting programs is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs. The college reserves the right to add or delete programs, options, courses, timetables or campus locations subject to sufficient enrolment, and the availability of courses.