

# ARCHITECTURAL TECHNICIAN

**Program:** ARTC

**Credential:** Ontario College Diploma, Co-op

**Delivery:** Full-time

**Work Integrated Learning:** 2 Co-op Work Terms

**Length:** 4 Semesters, plus 2 work terms

**Duration:** 2 Years

**Effective:** Fall 2018

**Location:** Barrie

## Description

This two-year program, with 4 semesters and 2 co-op work experiences, prepares students to work alongside architects, designers and project managers. While developing skills in architectural drafting and design as well as an understanding of the building design and construction process, students take courses in computer-aided drafting and project design, building codes, contracts and specifications. Teamwork and project-based learning is emphasized. This program is common with the first four semesters of the Architectural Technology program and graduates may choose to continue into the third year of that program.

## Career Opportunities

Graduates find work in the private sector as architectural and civil draftspersons, working in the teams that prepare design or working drawings. They may also find careers as sales representatives and technicians in building products manufacturing firms and in government departments. They may also find employment as assistants in architectural construction field offices.

## Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. communicate with clients, contractors, other building professionals, and approval authorities;
2. assist in the preparation, reading, and interpretation of drawings, and other graphical representations used in building projects;
3. read and assist in the preparation of specifications and other project documents used in design and construction;
4. assist in the preparation of estimates of time, costs, and quantity;
5. assist in solving technical problems related to building projects through the application of principles of building science and mathematics;
6. collaborate with members of the building team; assist in the development of architectural designs;
7. assist in the development of architectural designs;
8. review and assist in the preparation of site planning documents;
9. comply with the legal and ethical requirements of an architectural technician in the practice of building design and construction;
10. assist in the assessment of buildings related to repurposing and renovation projects;
11. ensure personal safety in the workplace;
12. identify sustainable design and building practices;
13. use current and emerging technology to support building projects;
14. assist in the administration of the construction phase of building projects;

15. apply basic entrepreneurial strategies to identify and respond to new opportunities.

## Practical Experience

Co-operative Education is a mandatory component of all Co-op programs at Georgian College; it has been designed as a process by which students integrate their academic education with work experience related to their programs of study. This integration affects much more than simply earning a salary, including the adjustment to the work environment and the development of professionalism. It also reinforces skills and theory learned during academic semesters, develops professional contacts, job knowledge and career path, improves human relations and communication skills, and promotes personal maturity and financial independence.

Students are requested to register, attend and participate in their scheduled co-operative education classes. These classes are scheduled for all first year students and are expected to be completed in order for students to proceed successfully to their first co-op work experiences. To ensure students are eligible to proceed onto any co-op work experience, students should refer to Promotional Status and Eligibility for Co-op as outlined in the College Calendar. Co-op policies and procedures can be located on our website:

[www.georgiancollege.ca/student-services/co-op-and-career-services/students-tab/](http://www.georgiancollege.ca/student-services/co-op-and-career-services/students-tab/) (<http://www.georgiancollege.ca/student-services/co-op-and-career-services/students-tab/>)

Georgian College follows the Co-operative Education guidelines set out by the Canadian Association for Co-operative Education (CAFCE) and Education at Work Ontario (EWO) by supporting the learning outcomes designed for the program specific graduate profile and curriculum as set out by the Ministry of Advanced Education and Skills Development.

## External Recognition

This program is accredited by the Canadian Association for Co-operative Education.

## The Program Progression

### Fall Intake

- **Sem 1:** Fall 2018
- **Sem 2:** Winter 2019
- **Work Term 1:** Summer 2019
- **Sem 3:** Fall 2019
- **Work Term 2:** Winter 2020
- **Sem 4:** Summer 2020

## Articulation

A number of articulation agreements have been negotiated with universities and other institutions across Canada, North America and internationally. These agreements are assessed, revised and updated on a regular basis. Please contact the program co-ordinator for specific details if you are interested in pursuing such an option. Additional information can be found on our website at <http://www.georgiancollege.ca/admissions/credit-transfer/>

## Admission Requirements

OSSD or equivalent with

- Grade 12 English (C or U)
- Grade 12 Mathematics (C or U)

Mature students, non-secondary school applicants (19 years or older), and home school applicants may also be considered for admission. Eligibility may be met by applicants who have taken equivalent courses, upgrading, completed their GED, and equivalency testing. For complete details refer to: [www.georgiancollege.ca/admissions/policies-procedures/](http://www.georgiancollege.ca/admissions/policies-procedures/) (<http://www.georgiancollege.ca/admissions/policies-procedures/>)

Applicants who have taken courses from a recognized and accredited post-secondary institution and/or have relevant life/learning experience may also be considered for admission; refer to the Credit Transfer Centre website for details:

[www.georgiancollege.ca/admissions/credit-transfer/](http://www.georgiancollege.ca/admissions/credit-transfer/) (<http://www.georgiancollege.ca/admissions/credit-transfer/>)

## Graduation Requirements

27 Program Courses  
2 Communications Courses  
3 General Education Courses  
2 Co-op Work Terms

### Graduation Eligibility

To graduate from this program, the passing weighted average for promotion through each semester, from year to year, 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.

### Program Tracking

Semester 1		Hours
Program Courses		
ARCH 1000	Architectural Design - Fundamentals	42
ARCH 1001	Quantity Surveying 1	42
ARCH 1005	Architectural Drafting 1	42
CONS 1005	Construction Technology: Structures	42
ENVR 1008	Architecture and the Environment	42
MATH 1028	Mathematics for Constructions	42
SURV 1002	Surveying	42
Communications Course		
Select 1 course from the communications list during registration.		42
Hours		336
Semester 2		
Program Courses		
ARCH 1002	Architectural Design - Residential	42
ARCH 1003	Quantity Surveying 2	42
ARCH 1006	Architectural Drafting 2	42
ARCH 1007	Drawing for Architecture	42
ARCH 2002	Architectural Codes and Standards 1	42
CONS 1006	Construction Technology: Interiors	42
MGMT 1002	Productivity Tools	42
Communications Course		
Select 1 course from the communications list during registration.		42
Hours		336

### Semester 3

Program Courses		
ACCT 3006	Construction Accounting	42
ARCH 2000	Architectural Design - Commercial	42
ARCH 2004	Architectural Drafting 3	42
ARCH 2005	Architectural Codes and Standards 2	42
CONS 2005	Construction Technology: Building Envelope	42
CONS 2006	Building and Materials Reuse	42
MENG 2016	Statics	42
General Education Course		
Select 1 course from the general education list during registration.		42
Hours		336

### Semester 4

Program Courses		
ARCH 2006	Sustainable Design	42
ARCH 2007	Architectural CAD	42
BLDG 2000	Ontario Building Code and Provincial Standards	42
CONS 2007	Site Planning and Landscape	42
MENG 2017	Strength of Materials	42
MGMT 2025	Project Management	42
General Education Courses		
Select 2 courses from the general education list during registration.		84
Hours		336
Total Hours		1344

### Co-op Work Terms

		Hours
COOP 1013	Technology Work Term 1 (occurs after Semester 2)	640
COOP 2009	Technology Work Term 2 (occurs after Semester 3)	560
Hours		1200
Total Hours		1200

*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.*