

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 2019 **Location:** Barrie

Description

Students in this program prepare 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 may 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:

- communicate with clients, contractors, other building professionals, and approval authorities;
- assist in the preparation, reading, and interpretation of drawings, and other graphical representations used in building projects;
- 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;
- 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;
- 7. assist in the development of architectural designs;
- 8. review and assist in the preparation of site planning documents;
- comply with the legal and ethical requirements of an architectural technician in the practice of building design and construction;
- 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)

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 2019

• Sem 2: Winter 2020

· Work Term 1: Summer 2020

· Sem 3: Fall 2020

· Work Term 2: Winter 2021

• Sem 4: Summer 2021

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)

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)

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

Course	Title	Hours
Semester 1		
Program Course	s	
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	s Course	
Select 1 course t	from the communications list during registration.	42
	Hours	336
Semester 2		
Program Course		
9	\$	
ARCH 1002	s Architectural Design - Residential	42
ARCH 1002 ARCH 1003		42 42
	Architectural Design - Residential	
ARCH 1003	Architectural Design - Residential Quantity Surveying 2	42
ARCH 1003 ARCH 1006	Architectural Design - Residential Quantity Surveying 2 Architectural Drafting 2	42 42
ARCH 1003 ARCH 1006 ARCH 1007	Architectural Design - Residential Quantity Surveying 2 Architectural Drafting 2 Drawing for Architecture	42 42 42
ARCH 1003 ARCH 1006 ARCH 1007 ARCH 2002	Architectural Design - Residential Quantity Surveying 2 Architectural Drafting 2 Drawing for Architecture Architectural Codes and Standards 1	42 42 42 42
ARCH 1003 ARCH 1006 ARCH 1007 ARCH 2002 CONS 1006	Architectural Design - Residential Quantity Surveying 2 Architectural Drafting 2 Drawing for Architecture Architectural Codes and Standards 1 Construction Technology: Interiors Productivity Tools	42 42 42 42 42

Select 1 course	from the communications list during registration.	42
	Hours	336
Semester 3		
Program Course	es	
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 3005	Building Services	42
MENG 2016	Statics	42
General Educati	ion Courses	
Select 2 course	s from the general education list during registration.	84
	Hours	336
Semester 4		
Program Course	es	
ARCH 2003	History of Architecture	42
ARCH 2006	Sustainable Design (new title 2019-20: Architectural Design - Sustainable Solutions)	42
ARCH 2008	Building Information Modeling 1	42
BLDG 2000	Ontario Building Code and Provincial Standards	42
CONS 2006	Building and Materials Reuse	42
MENG 2017	Strength of Materials	42
MGMT 2025	Project Management	42
General Educati	ion Course	
Select 1 course	from the general education list during registration.	42
	Hours	336
	Total Hours	1344
Course	Title	Hours
Co-op Work Ter	ms	
COOP 1013	Technology Work Term 1	640
COOP 2009	Technology Work Term 2	560
	Hours	1200
	Total Hours	1200

Graduation Window

Students unable to adhere to the program duration of two years (as stated above) may take a maximum of four years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

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.