

Architectural Technology

Program Code: 3105
3115 (co-op)
Program Length: 3 years/6 semesters
Credential: Ontario College
Advanced Diploma
Start: Fall, Winter
Campus: Centennial Science and
Technology Centre
archtech@centennialcollege.ca

Program Overview

The Architectural Technology program will prepare you for a career in the construction industry, working with architects, engineers, builders, contractors and municipal building departments. Using state-of-the-art computer technology, you will prepare designs, construction drawings and specifications needed to communicate with clients, construction professionals and approval authorities.

Student activities include preparing drawings for residential, industrial, commercial and institutional building types. You will also be introduced to building materials, construction methods, structural design, mechanical and electrical services, building codes, contracts, specifications, and the business environment for providing design and construction services.

Academically qualified students can enhance their education by working as paid employees in the architectural technology field, for a total of up to 12 months. This experience puts classroom learning into practice and provides valuable career contacts.

Centennial's Architectural Technology program places a strong emphasis on protecting the environment, energy conservation and sustainable design and construction strategies.

Students who successfully complete the first two years of the three-year Architectural Technology program may apply to graduate from the two-year Architectural Technician program.

At A Glance

Companies hiring graduates include:

- Cassidy & Company, Architectural Technologists
- Hunt Design Associates Inc.
- Viljoen Architect Inc.
- Romanov & Romanov, Architects
- LaPointe, Architects

BENEFITS

CAREER OUTLOOK

Program graduates are prepared to work with

- architects
- architectural technology firms
- engineers
- builders
- contractors
- developers
- construction material manufacturers and suppliers and municipal building departments.

PROGRAM HIGHLIGHTS

Graduates are eligible to join the Association of Architectural Technologists of Ontario (AATO) and the Ontario Association for Applied Architectural Sciences (OAAAS).

EDUCATIONAL PARTNERS

Graduates of this program may qualify for advanced educational programs leading to professional careers through the Royal Architectural Institute of Canada Syllabus.

ADMISSION REQUIREMENTS

Centennial College expects students applying for admission to certificate or diploma programs to present at minimum: Ontario Secondary School Diploma (OSSD) or equivalent or be 19 years of age or older. Possession of minimum admission requirements does not guarantee admission to program.

ACADEMIC REQUIREMENTS

- compulsory English 12C or U, or skills assessment or equivalent
- math 11M or U, or 12C or U, or skills assessment or equivalent

CO-OP REQUIREMENTS

- minimum C grade in COMM-170, minimum 2.5 GPA, and minimum 80 per cent of year 1 courses required for COOP-221
- departmental academic standards for co-op eligibility also apply

SEMESTER REQUIREMENTS

- minimum 2.0 GPA required for entry into each semester
- MATH-111 and COMM-170/171 must be successfully completed before the start of semester 3
- students who have completed all courses in semester 1-4 will have all the prerequisites requirements for courses in semester 5 and 6

PROGRAM OUTLINE

Semester 1

ARCH-101	Design and Computer Aided Drafting Project 1*
ENVR-101	Environment 1*
MATM-101	Materials and Methods 1*
MATH-111	Mathematics for Architecture 1**
MATH-154	Microcomp. Applic. for Tech. A *
COMM-170/171	College Communications 2**
GNEC	General Education Elective

Semester 2

ARCH-121	Design and Computer Aided Drafting Project 2*
ARAP-124	Applied Physics*
ENVR-123	Environment 2*
MATM-122	Materials and Methods 2*
MATH-112	Mathematics for Architecture 2*
GNEC-500	Global Citizenship: From Social Analysis to Social Action

Semester 3

ACHS-204	Construction Health & Safety*
ARBC-205	Builders and Contractors*
ARCH-201	Design and Computer Aided Drafting Project 3*
ENVR-203	Environment 3*
MATM-202	Materials and Methods 3*
GNEC-158	History of Western Architecture*
COOP-221	Employment Pre-placement (3115)

Co-op Work Term 1 (3115)

Semester 4

ARBS-222	Building Services 1*
ARCH-221	Design and Computer Aided Drafting Project 4*
ARGR-224	Architectural Graphics*
ARST-305	Structures*
ENVR-223	Environment 4 *
GNEC	General Education Elective

Co-op Work Term 2 (3115)

Semester 5

ARBS-302	Building Services 2
ARBW-307	Business Writing
ARCH-301	Design and CAD Complex Project
ARPM-225	Project Management
ARPT-304	Advanced Presentation Techniques
ARST-306	Advanced Structures
ENVR-303	Environment 5

Co-op Work Term 3 (3115)

Semester 6

ARBL-324	Building within the Municipality
ARCH-321	Design and CAD Multi-Use Project
ARCL-322	Contracts, Law and Professional Practice & Ethics
ARPE-326	Building Code – Sustainable Qualification Preparation
ARSW-325	Specification Writing & Contracts
ENVR-323	Environment 6

**minimum C-grade required for Technologist.*

ACCREDITATION PENDING

Fast forward to the Fast-track options, page 134.