

Architectural Technology

A Three-Year Ontario College Advanced
Co-operative Education Endorsed Diploma

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The Program

This program provides extensive CADD training and introduces the student to the principles of design and planning, modern building methods and structural and environmental engineering related to architectural construction. Individual and team projects involved with residential, industrial, commercial and institutional buildings assist in the development of knowledge and skills required for careers in the architectural and construction fields.

The Content

This program introduces the student to the principles of design and planning, contemporary building methods and structural and environmental engineering related to architectural construction. Individual and team projects involved with residential, industrial, commercial and institutional buildings assist in the development of knowledge and skills required for careers in the architectural and construction fields. This co-operative education program consists of 6 academic semesters and completion of a minimum of 3 co-operative education work terms over a 3.3 to 3.7 year period.

Outcomes

The graduate may find career opportunities with professional firms, industrial and commercial corporations, and government agencies. After suitable experience, the graduates will be qualified for such positions as Architectural Assistant, Job Captain, Senior Draftsman, CAD Technologist, Field Supervisor, Specification Writer, Clerk of Works, Inspector and Technical Representative.

Sample Co-op Progression Options:

Group A			
	Fall	Winter	Summer
Year 1	Academic Term 1	Academic Term 2	Off
Year 2	Academic Term 3	Work Term 1	Academic Term 4
Year 3	Work Term 2	Academic Term 5	Work Term 3
Year 4	Work Term 4	Academic Term 6	Graduation

Group B			
	Fall	Winter	Summer
Year 1	Academic Term 1	Academic Term 2	Off
Year 2	Academic Term 3	Work Term 1	Work Term 2
Year 3	Academic Term 4	Work Term 3	Academic Term 5
Year 4	Work Term 4	Academic Term 6	Graduation

Group C			
	Fall	Winter	Summer
Year 1	Academic Term 1	Academic Term 2	Academic Term 3
Year 2	Work Term 1	Academic Term 4	Work Term 2
Year 3	Academic Term 5	Work Term 3	Work Term 4
Year 4	Academic Term 6	Graduation	

Winter Intake			
Follows Group A or B Pattern After Completion of Academic Term 2			

Course Outline

For the official Degree Audit, please see Registrar's Office

Level 1 – Take all of the following Mandatory Courses

ARCH-1001	Architectural Design I
CADD-1041	Architectural AutoCAD I
WRIT-1039	Reason & Writing I – Technology
DRAF-1059	Architectural Fundamentals I
MATS-1002	Materials and Methods I
MATH-1061	Statics
ARCH-1006	History of Architecture
MATH-1036	Mathematics in Technology I

Taken in Level 1 or 2 (Mandatory Course)

COOP-1020	Co-operative Education Employment Prep
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Level 2 – Take all of the following Mandatory Courses

CADD-1042	Architectural AutoCAD II
ARCH-1030	Architectural Design & Project II
ARCH-1004	Ontario Building Code I
MATS-1007	Materials and Methods II
MECH-1009	Mechanics of Materials
SFTY-1029	Health & Safety
ENVR-1017	Sustainability in the Built Environment

Level 3 – Take all of the following Mandatory Courses

ARCH-3015	Architectural Design & Project III
ARCH-1021	Ontario Building Code II
ENGR-1004	Environmental Engineering – Electrical
MATS-3009	Materials and Methods III
CONS-1012	Quantities
ENGR-3007	Structural Engineering I
SURV-1002	Surveying

Level 4 – Take all of the following Mandatory Courses

Gen Ed.	– take one 3-credit Gen. Ed. elective course
ARCH-3016	Architectural Design & Project IV
CADD-3030	Building Information Modelling
ENGR-1006	Environmental Engineering (HVAC)
MATS-3010	Materials and Methods IV
ENGR-3009	Structural Engineering II
URBN-1025	Urban Environmental Studies

Level 5 – Take all of the following Mandatory Courses

Gen Ed.	– take one 3-credit Gen. Ed. elective course
ARCH-5001	Building Science I
ARCH-5009	Architectural Design & Project V
ECON-1010	Building Economics
ARCH-3007	Specifications I
ENGR-5007	Structural Engineering III

Level 6 – Take all of the following Mandatory Courses

ARCH-5010	Architectural Design & Project VI
ARCH-5005	Building Science II
ARCH-5006	Architectural Office Procedures
ARCH-5007	Specifications II
ENGR-5009	Structural Engineering IV
COMM-5005	Technical Report Prod. For Bldg. Tech'y

Requirements:

- Take two 3-credit General Education (Gen.Ed.) elective Courses
- Program Residency

Students must complete a minimum of 38 credits in this program at Fanshawe College to meet the Program Residency requirement and graduate from this program.

Why Should You Hire a Co-operative Education Student?

Many employers feel today's graduates have no concept of the "real" world of work; we are providing this experience in Co-operative Education. Any job that gives the student related background in your business would be suitable.

Eligible employers can claim a tax credit for each qualifying work placement for up to \$3000.

Co-operative Education students are ultimately looking ahead to careers in businesses such as yours. For this reason they are not expecting to simply put in time on the job, but are eager to get involved and make a worthwhile contribution. Participation in co-operative education also gives the employer the opportunity to try out a student's capabilities without obligation or commitment to permanent employment.

This work oriented educational system integrates classroom study and paid, on-the-job work experience, by alternating periods in College with periods of employment by co-operating organizations.

The work terms are spaced out through the academic program and students will be at various academic levels in successive work terms. The working experience will ideally increase in difficulty and responsibility as the student progresses academically. However, the College realizes it is often difficult in practice to do this.

It is essential that the work experience be a normal one; that the student be treated like a regular company employee so that a realistic picture of the working environment in that field may be obtained. Perhaps most important is what students gain from the working experience, i.e. an attitude for success and the ability to get along with co-workers at all levels.

