

Architectural Technologies Diploma (2018)

Program Description

The Architectural Technologies program is designed to provide you with the essential skills, knowledge and abilities required to work as an Architectural Technologist for architectural firms, residential builders and many other companies involved in the construction industry. The purpose of the program is to enable graduates to be able to perform and manage the fundamental duties of a junior architectural technologist.

This Diploma program is two years in length, consisting of four 15-week semesters. In the fourth semester, you refine your skills in a comprehensive Capstone project. The Architectural Technology program is learner-centred. We believe that students learn best when they construct knowledge and meaning from a collaboration between their learning experiences and their ideas. This type of applied experiential education means the development of the hand and mind through innovation, relevant content, engaged instructors and students who want to create meaningful careers.

The program employs a Project Based Learning (PBL) model. This means that the “single subject inputs and assignments all relate to, and support the project work.” In this applied education model the repeated practice of going through a problem enables you to build up a repertoire of significant experiences. A critical feature of the program the focus on blending the science and practice of architectural technology

You will learn by undertaking projects that simulate and simplify work practices in an educational setting modelled on a real-world environment. It is a setting where you get to practice. Semesters are typically organized around a manageable core or central project. These projects will involve both individual and group-based work. In both instances, collaborative learning and teaching are practised. In all cases, there is an emphasis on learning by doing. This program will develop critical thinking skills through the practice of confronting uncertainty. It allows one to see unfamiliar situations as familiar and this, in turn, allows one to have a feel or approach to problems that do not conform to rules.

Program Overview

Your Career

Graduates find diverse work in architectural offices and in building construction as architect assistants, building inspectors, building products sales and graphic designers.

Graduates of the Architectural Technologies program have a 95% employment rate

Student Success

The most successful students in the program are those with a solid foundation in high school Math and Physics and the aptitude to apply those skills to solving real problems. The ability to visualize in three dimensions and an affinity towards computerized graphics software are valuable assets.

Credentials and Accreditation

Upon successfully completing this program, graduates will be awarded a SAIT diploma in Architectural Technologies.

Admission Requirements

At least 50% in the following courses or their equivalents:

Math 30-1 or Math 30-2 or Pure Math 30 or Applied Math 30, AND,
English Language Arts 30-1 or English Language Arts 30-2, AND, A
Grade 12 Science.

All applicants must demonstrate English Language Proficiency prior to admission, including students educated in Canada.

Program Outline

First Year

Semester 1

ARCH 205 Research and Design I ARCH
203 Technology I
ARCH 201 Science and Systems I
ARCH 200 Documentation and Regulation I COMM
238 Technical Communications I

Semester 2

ARCH 285 Research and Design II
ARCH 263 Technology II
ARCH 261 Science and Systems II
ARCH 262 Documentation and Regulation II
MATH 262 Technical Mathematics I

Second Year

Semester 3

ARCH 305 Research and Design III
ARCH 303 Technology III
ARCH 301 Science and Systems III
ARCH 300 Documentation and Regulation III
STAT 245 Statistics for Engineering and Technology I

Semester 4

ARCH 351 Science and Systems IV
ARCH 353 Technology IV
ARCH 362 Documentation and Regulation IV
ARCH 386 Research and Design IV
PROJ 372 Architectural Capstone Project

Total Credits 60