Area of Interest: Engineering and Architecture

**Architectural Technician (Co-op and Non Co-op Version)**

Ontario College Diploma

2 Years

Ottawa Campus

**Academic Year: 2020/2021**

**Program Code: 0188X01FWO**

**Our Program**

**Build your architectural career within the construction industry.**

The two-year Architectural Technician Ontario College Diploma program teaches you the skills and techniques to enter a career in the architecture and construction fields.

Your professors are industry professionals who provide you with a learning experience from the construction industry and the architectural profession, enabling you to be successful in your academic and professional ventures.

Begin the program with a focus on residential construction, and progress to studying commercial construction, as defined in the Ontario Building Code. Develop skills related to all facets of building construction, including design and technical resolution with the integration of building and material detailing.

As a student in this program, you have the opportunity to study and learn in a variety of practical topics, using both applied and theoretical learning, and a project-based, integrated studies approach. Courses include:

- Working Drawings
- Methods and Materials of Construction
- Codes and Standards
- AutoCAD
- Revit
- Visual Communications
- Design
- Environmental Systems

Students also have the option to gain real-world experience through a paid co-operative education (co-op) work term (see Additional Information for more details). Please note that places in the co-op version of the program are subject to availability. Students who elect to apply to the non co-op version of the program may not have the opportunity to transfer to the co-op version at a later date.

On completion of this two-year program, you have the opportunity to further your education at Algonquin College by:

- completing the Architectural Technology Ontario College Advanced Diploma program as a third-year option
- applying to the Green Architecture Ontario College Graduate Certificate program
- applying to the Building Information Modeling - Lifecycle Management (BIM-LM) Ontario College Graduate Certificate program
• applying for advanced standing in the Bachelor of Building Science Degree program

Graduates often work:
• in architects` offices
• with contractors in multiple sectors
• in engineering offices
• as a building materials sales representative
• with municipal offices such as the City of Ottawa
• with federal and provincial agencies dealing with construction
• in a drafting service office using AutoCAD and Revit
• in construction, maintenance, and planning jobs
• with real estate and facilities management companies

SUCCESS FACTORS
This program is well-suited for students who:
• Are detail-oriented, organized and committed to achieving excellence in their work.
• Are creative and enjoy solving technical problems.
• Thrive in a dynamic and technically-driven environment.
• Think visually and creatively.

Employment
Graduates may find employment in architects` offices, with contractors in a number of capacities, in a drafting service office using AutoCAD and Revit, as building material sales representatives, in facilities management, and in municipal, provincial and federal agencies dealing with construction, real estate and planning.

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.
• 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.
• Collaborate with members of the building team.
• Assist in the development of architectural designs.
• 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.
• Ensure personal safety in the workplace.
• Identify sustainable design and building practices.
• Use current and emerging technology to support building projects.
• Assist in the administration of the construction phase of building projects.
• Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

Program of Study

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<tr>
<th>Level: 01</th>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARC8401</td>
<td>Working Drawings I</td>
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<tr>
<td>ARC8421</td>
<td>Construction Methods and Materials I</td>
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<td>CAD8407</td>
<td>Architectural CAD I</td>
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<td>DSN8401</td>
<td>Visual Communication I</td>
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<td>Communications I</td>
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<td>GED2012</td>
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<td>MAT8050</td>
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<td>ARC8402</td>
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<td>ARC8423</td>
<td>Construction Methods and Materials III</td>
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Choose one from equivalencies: Courses

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<td>ARC8510</td>
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<tr>
<td>ENG8491</td>
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<tr>
<td>ENL2019T</td>
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Fees for the 2020/2021 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees

Further information on fees can be found by visiting the Registrar`s Office website at [https://www.algonquincollege.com/ro](https://www.algonquincollege.com/ro).

Fees are subject to change.

Additional program related expenses include:
Books and supplies cost approximately $1,200 in the first year and $450 in the second year. Most supplies can be purchased at the campus store. See [http://www.algonquincollege.com/coursematerials](http://www.algonquincollege.com/coursematerials) for more information about books.

Students may be required to purchase CSA-approved safety footwear and safety glasses to participate in site visit activities.

**Admission Requirements for the 2021/2022 Academic Year**

**College Eligibility**
- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
- Academic and Career Entrance (ACE) certificate; OR
- General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

**Program Eligibility**
- English, Grade 12 (ENG4C or equivalent).
- Mathematics, (Grade 12 MAP4C with a grade of 60% or higher) or (Grade 11 MCF3M with a grade of 50% or higher) or equivalent.
- Applicants who have been out of school for a period of time are encouraged to take a refresher course in mathematics and/or basic computer skills prior to the start of classes. Refresher/upgrading courses are available through Academic Upgrading courses, the Centre for Continuing and Online Learning and through local school boards.
- Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).
- IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT)-overall 80, with a minimum of 20 in each component: Reading: 20; Listening: 20; Speaking: 20; Writing: 20.

Should the number of qualified applicants exceed the number of available places, applicants will be selected on the basis of their proficiency in English and mathematics.

**Admission Requirements for 2020/2021 Academic Year**

**College Eligibility**
- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
- Academic and Career Entrance (ACE) certificate; OR
- General Educational Development (GED) certificate; OR
- Mature Student status (19 years of age or older and without a high school diploma at the
• Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

Program Eligibility

• English, Grade 12 (ENG4C or equivalent).

• Mathematics, (Grade 12 MAP4C with a grade of 60% or higher) or (Grade 11 MCF3M with a grade of 50% or higher) or equivalent.

• Applicants who have been out of school for a period of time are encouraged to take a refresher course in mathematics and/or basic computer skills prior to the start of classes. Refresher/upgrading courses are available through Academic Upgrading courses, the Centre for Continuing and Online Learning and through local school boards.

• International applicants must provide proof of the subject specific requirements noted above along with proof of either: (IELTS / TOEFL) IELTS-International English Language Testing Service (Academic) Overall band of 6.0 with a minimum of 5.5 in each band; OR TOEFL-Internet-based (iBT)-overall 80, with a minimum of 20 in each component: Reading: 20; Listening: 20’ Speaking: 20; Writing: 20.

• Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency.

Should the number of qualified applicants exceed the number of available places, applicants will be selected on the basis of their proficiency in English and mathematics.

Application Information

ARCHITECTURAL TECHNICIAN (CO-OP AND NON CO-OP VERSION)
Program Code 0188X01FWO

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca
60 Corporate Court
Guelph, Ontario N1G 5J3
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at http://www.ontariocolleges.ca/. Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information: https://algonquincollege.force.com/myACint/.

For further information on the admissions process, contact:

Registrar’s Office
Algonquin College
1385 Woodroffe Ave
Ottawa, ON K2G 1V8
Telephone: 613-727-0002
Toll-free: 1-800-565-4723
TTY: 613-727-7766
Fax: 613-727-7632
Email: mailto:AskUs@algonquincollege.com

Additional Information

Programs at Algonquin College are Bring Your Own Device (BYOD). To see the BYOD requirements for your program, please visit: https://www7.algonquincollege.com/byod/.
Apply directly to the co-op or non co-op version of this program through OntarioColleges.ca or our International Application Portal.

Cooperative education (Co-op) allows students to integrate their classroom learning with a real-world experience through paid work terms. Two academic terms prior to the cooperative education work term, students are required to actively participate in and successfully complete the self-directed co-op online readiness activities and in-person workshops.

Students must actively conduct a guided, self-directed job search and are responsible for securing approved program-related paid co-op employment. Students compete for co-op positions alongside students from Algonquin and other Canadian and international colleges and universities. Algonquin College’s Co-op Department provides assistance in developing co-op job opportunities and facilitates the overall process, but does not guarantee that a student will obtain employment in a co-op work term. Co-op students may be required to re-locate to take part in the co-op employment opportunities available in their industry and must cover all associated expenses; e.g., travel, work permits, visa applications, accommodation and all other incurred expenses.

Co-op work terms are typically 14 weeks in duration and are completed during a term when students are not taking courses.

International students enrolled in a co-op program are required by Immigration, Refugees and Citizenship Canada (IRCC) to have a valid Co-op/Internship Work Permit prior to commencing their work term. Without this document, International students are not legally eligible to engage in work in Canada that is a mandatory part of an academic program.

For more information, please visit https://www.algonquincollege.com/coop.

With departmental approval, students who maintain a college-prescribed academic standing may take part in a cooperative placement during the Summer months.

The Co-op Work Term is at the end of Level 02.

Students who have completed all course requirements equivalent to the Architectural Technician program of study with a minimum GPA of 2.00 are eligible to apply to Level 05 of the Architectural Technology program.

Architectural Technician graduates are eligible to apply for the following Ontario College graduate certificate programs: Green Architecture, Building Information Modelling-Lifecycle Management (BIM-LM). Graduates may also be eligible for advanced standing in the Bachelor of Building Science Degree Program.

For standard delivery, students will be scheduled for two consecutive semesters followed by a one semester break. Exceptions must be approved by the Academic Chair.

Note: Students who are not successful in ARC8401 - Working Drawings I and/or ARC8421 - Construction Methods and Materials I and/or CAD8407 - Architectural CAD I will be withdrawn from the program and must reapply to Level 01 through ontariocolleges.ca.

For the weekday offering of the Architectural Technician program, please contact Richard Peever, Program Coordinator, at 613-72704723 ext. 6603 or peeverr@algonquincollege.com.

**Course Descriptions**

**ARC8401 Working Drawings I**

Manual drawing skills are used to develop a set of basic working drawings including plans, elevations, sections and details for a wood-frame house. Emphasis is placed on communicating information through the use of hand drawn graphics.

Prerequisite(s): none  
Corequisite(s): none

**ARC8402 Working Drawings II**

Using AutoCAD, students prepare building permit caliber working drawings for a typical two-storey residence. Hand sketching is used to resolve a variety of construction details.
Prerequisite(s): 
ARC8401 and CAD8407
Corerequisite(s): 
ARC8422 and CAD8409

ARC8403C Working Drawings III

Students apply Part 3 and Part 9 of the Ontario Building Code to the renovation of a small wood frame multi-unit residential and commercial building, including the design of simple floor plans. Detailing includes existing wall construction, new wall assemblies and the connections between them. Students produce a final, coordinated partial set of working drawings.

Prerequisite(s): 
ARC8402 and CAD8409
Corerequisite(s): 
ARC8423

ARC8404C Working Drawings IV

Students apply Part 3 of the Ontario Building Code to examine various building envelope assemblies for commercial buildings. Students gain an understanding of the relationship between architectural, structural, mechanical and electrical systems.

Prerequisite(s): 
ARC8403C and ARC8430
Corerequisite(s): 
ARC8424 and ENG8491

ARC8421 Construction Methods and Materials I

Students are introduced to the physical characteristics of construction materials including their manufacture and use in wood-frame construction. Various structural components in a typical residential building are designed to ensure compliance with Part 9 of the Ontario Building Code. Residential stair systems are also examined.

Prerequisite(s): none
Corerequisite(s): none

ARC8422 Construction Methods and Materials II

Ensuring compliance with Part 9 of the Ontario Building Code, students examine issues involving the location of a building on a site, soils, building envelopes, basic building science including prescriptive energy specifications and interior space requirements for residential construction. Students acquire Workplace Hazardous Materials Information System training.

Prerequisite(s): 
ARC8421
Corerequisite(s): 
ARC8402

ARC8423 Construction Methods and Materials III

Students apply building code requirements and engineered framing systems for Part 9 of the Ontario Building Code, Small Buildings. The fundamental concepts of sustainability are explored as well as alternate construction materials and methods. Construction sequencing and time lines are examined for a typical residential project. Finally, teamwork is emphasized as students work in groups to produce a detailed architectural model.

Prerequisite(s): 
ARC8422
Corerequisite(s): 
ARC8403C

ARC8424 Construction Methods and Materials IV

The construction methods and materials used in commercial construction are introduced. Students review the Building Code Act, Part 10 (Change of Use) and Part 11 (Renovations) of the Ontario Building Code.

Prerequisite(s): 
ARC8423
Corerequisite(s): 
ARC8404C
**ARC8430 Codes and Standards**

An introduction to the structure and content of the Ontario Building Code with emphasis on Division B Part 3 "Fire Protection, Occupant Safety and Accessibility" and Part 9 "Housing and Small Buildings" is provided. Students participate in in-class sessions and online worksheets.

Prerequisite(s): ARC8422  
Corerequisite(s): none

**ARC8510 Construction Documentation I**

An overview of the construction industry and related documentation is presented. Students are introduced to industry stakeholders, project delivery methods, standard industry contracts, the Project Manual and specifications and basic estimating techniques.

Prerequisite(s): ARC8423 and MAT8050 and MAT8051  
Corerequisite(s): none

**BSC8451 Environmental Systems I**

Students learn the basic concepts of water flow and heat transfer. Students are introduced to pipe terminology, pipe design logic and pipe systems functions. Students are also introduced to the concepts of building heat loss, the functions of the residential heating systems and the advantage of using one fuel relative to another.

Prerequisite(s): MAT8050 or MAT8051  
Corerequisite(s): none

**BSC8452 Environmental Systems II**

Students are introduced to the concepts of ductwork, air conditioning equipment, hydronic heating systems, electrical systems and building protection equipment. Students learn how these interact with the design of a building.

Prerequisite(s): BSC8451  
Corerequisite(s): none

**CAD8407 Architectural CAD I**

Students are introduced to computer-aided drafting using AutoCAD. Focus is placed on the drawing and editing commands required to produce two-dimensional architectural drawings.

Prerequisite(s): none  
Corerequisite(s): none

**CAD8409 Architectural CAD II**

Building on the basic AutoCAD skills acquired in CAD8407, students learn how to produce professional two-dimensional architectural drawings.

Prerequisite(s): CAD8407  
Corerequisite(s): ARC8402

**CAD8414 Revit Architecture I**

Students are introduced to Revit Architecture. Basic creation, editing commands, annotation and view controls are learned as students complete several in-class assignments dealing with residential buildings. A final in-class exam creates a basic residential model and drawing set. Basic concepts of Building Information Modeling (BIM) are discussed.

Prerequisite(s): ARC8402 and CAD8409  
Corerequisite(s): none
CAD8415 Revit Architecture II

Students build on the basic tools and skills learned in CAD8414. More advanced features of Revit Architecture such as detailing, curtain walls, parametric families, site features and rendering are explored. Students create a Revit model and a partial drawing set for a commercial building project.

Prerequisite(s): CAD8414
Corerequisite(s): none

DSN8401 Visual Communication I

Students are introduced to a variety of skills necessary to communicate visually. Emphasis is placed on hand drawing/sketching while developing an understanding of how to analyze and perceive 3-dimensional shapes and forms. Formal presentation techniques and physical model building are also explored.

Prerequisite(s): none
Corerequisite(s): none

DSN8402 Visual Communication II

Students further study graphic communication skills for architecture. Emphasis is placed on the creation of simple 3D digital models, as well as architectural graphic presentations using a variety of current computer applications.

Prerequisite(s): DSN8401
Corerequisite(s): none

DSN8441 Design I

Students are introduced to the theory of architectural design through an analysis of Form and Space. The fundamental elements of architecture, spatial concepts and organizational principles and the urban context are explored using built form examples. Students design and prepare an architectural presentation for a residential project.

Prerequisite(s): DSN8402
Corerequisite(s): none

DSN8442 Design II

The design process is explored through a series of architectural design problems. Students are introduced to architectural design influences, such as context, zoning, programming, accessibility and aesthetics. Students design and prepare an architectural presentation for a small commercial building.

Prerequisite(s): DSN8441
Corerequisite(s): none

ENG8491 Structures I

The fundamental principles of structural systems and load analysis for large buildings are explored. Students undertake preliminary sizing of structural members, trace gravity loads and develop hand drawn sketches to resolve technical issues brought forward in their Working Drawings IV course.

Prerequisite(s): MAT8050 and MAT8051
Corerequisite(s): ARC8404C

ENL1813T Communications I

Communication remains an essential skill sought by employers, regardless of discipline or field of
study. Using a practical, vocation-oriented approach, students focus on meeting the requirements of effective communication. Through a combination of lectures, exercises, and independent learning, students practise writing, speaking, reading, listening, locating and documenting information and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none
Corerequisite(s): none

**ENL2019T Technical Communication for Engineering Technologies**

The ability to communicate effectively in a technically-oriented interdisciplinary workplace is a foundational skill in an innovation-driven economy. Students are exposed to exercises and assignments designed to foster independent and collaborative critical thinking, research, writing, visual communication and presentation skills related to technical topics.

Prerequisite(s): ENL1813T
Corerequisite(s): none

**GED0188 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science and Technology.

Prerequisite(s): none
Corerequisite(s): none

**GED2012 Achieving Success in the 21st Century**

Rapid changes in technology have created new employment and business opportunities that challenge each of us to find our place as citizens in the emerging society. Life in the 21st century presents significant opportunities, creates potential hazards and demands that we face new responsibilities in ethical ways. Students explore the possibilities ahead, assess their own aptitudes and strengths, and apply critical thinking and decision-making tools to help resolve some of the important issues present in our complex society with its competing interests.

Prerequisite(s): none
Corerequisite(s): none

**HIS8482 History of Architecture**

Students explore the major cultural trends and technological events, which have influenced the development of western architecture, from pre-history to present day. Students develop a general understanding of the origins of architectural styles and the evolution of building technology.

Prerequisite(s): none
Corerequisite(s): none

**MAT8050 Geometry and Trigonometry**

Students study the manipulation of algebraic expressions as a foundation for advanced mathematical concepts and solve a variety of measurement problems involving U.S. Customary and SI units. Students learn to graph simple polynomials and sinusoidal curves using a table of values or by using shifts, shrinks and stretches. They calculate the perimeter and area of basic geometric figures and calculate the surface area and volume of solid geometric figures. Students manipulate trigonometric functions of acute angles and solve problems involving the trigonometry of right triangles and vectors. Delivered in a modular format, this course is equivalent to the completion of all of the following math modules MAT8100 - a, d, m, n, k, and f.

Prerequisite(s): none
Corerequisite(s): none
MAT8051 Algebra

Students review the manipulation of algebraic expressions as a foundation for advanced mathematical concepts. Students solve 2x2 and 3x3 systems of linear equations, and factor algebraic expressions using common factors and techniques for factoring trinomials. They simplify, add, subtract, multiply and divide rational expressions and solve equations involving algebraic fractions. Students also manipulate radicals and algebraic expressions with fractional exponents, and solve exponential and logarithmic equations. Delivered in a modular format, this course is equivalent to the completion of all of the following math modules MAT8100 - b, c, e, g, and h.

Prerequisite(s): none
Corerequisite(s): none

WKT2101A Architecture Work Term 1 (Optional)

This course includes a work placement, a weekly recording of the activities done in a journal and a final summary report of the overall experience to be submitted before returning to school. The placement has to be in a construction-related industry, preferably architecture. The timing of the placement depends on the progression pattern of the program and cannot be done before completion of the second level of the Architecture Technician program. The placement is monitored by the College. Feedback from the employer is considered in the final evaluation of the course. All assignments (journal entries and final report) must be provided to pass the course. The College Coop office assists in finding a placement however, it is the students responsibility to find, apply and get the work term as if they were applying for a job.

Prerequisite(s): none
Corerequisite(s): none