Construction Engineering Technician (Co-op and Non Co-op Version)

Ontario College Diploma
2 Years
Ottawa Campus

Academic Year: 2020/2021
Program Code: 0190X01FWO

Our Program

Build a solid foundation for your career in residential or commercial construction.

The two-year Construction Engineering Technician Ontario College Diploma program introduces you to a wide range of knowledge and skills to work in the construction industry. This program combines both hands-on application and theory to help you secure a career in the residential and commercial construction industries.

The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) recognizes this program as meeting all of the academic requirements for certification in the Certified Technician Category. Using state-of-the-art facilities in Algonquin’s ACCE building, you build a solid foundation for your future career.

Take courses in surveying, construction materials, estimating and construction, building code and structural design documentation. Learn about health and safety relating to the field, hydraulics, geographic information systems and AutoCAD. Experience hands-on learning and participate in field trips.

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.

This program has strong ties to the construction industry and may help you build contacts throughout your time at Algonquin College.

Graduates of this program have the ability to work in a number of sectors within the construction industry. You may find opportunities in:

• cost estimating
• residential, commercial and civil projects
• surveying
• project management
• building inspection
• materials testing and quality control
• construction inspection &lt;
• AutoCAD: After you complete this program, you may choose to take an extra year of study in order to receive an Ontario College Advanced Diploma in Civil Engineering Technology.
SUCCESS FACTORS

This program is well-suited for students who:

• Can work independently to contribute to problems-solving teams.
• Enjoy using math and physics to solve technical problems.
• Seek opportunities to specialize in their career.
• Want to make a lasting difference in their community.

Employment

Graduates may find employment in many areas of the construction industry, including cost estimating of residential, commercial, and civil projects, surveying, project management, building inspection, materials testing and quality control and construction inspection.

Learning Outcomes

The graduate has reliably demonstrated the ability to:

• Develop and use strategies to enhance professional growth and ongoing learning in the construction engineering field.
• Comply with workplace health and safety practices and procedures in accordance with current legislation and regulations.
• Complete duties in compliance with contractual obligations, applicable laws, standards, bylaws, codes and ethical practices in the construction engineering field.
• Carry out sustainability practices in accordance with contract documents, industry standards and environmental legislative requirements.
• Collaborate with and facilitate communication among project stakeholders to support construction projects.
• Collect, process and interpret technical data to produce written and graphical project-related documents.
• Contribute to the collecting, interpreting and applying of survey/geomatics and layout information to implement construction projects.
• Identify and use industry-specific electronic and digital technologies to support the design and construction of projects.
• Contribute to the resolution of technical problems related to the design and implementation of construction projects by applying engineering concepts, basic technical mathematics and building science.
• Assist in the scheduling and monitoring of the progression of construction projects by applying principles of construction project management.
• Assist in the preparation of accurate estimates of time, cost, quality and quantity, tenders and bids.
• Perform quality control testing and monitoring of equipment, materials and methods involved in the implementation and completion of construction 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
## Level: 01
<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CON8101 Residential Building/Estimating</td>
<td>56.0</td>
</tr>
<tr>
<td>CON8411 Construction Materials I</td>
<td>42.0</td>
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<tr>
<td>GIS5001 Geographic Information Systems</td>
<td>42.0</td>
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<tr>
<td>MAT8050 Geometry and Trigonometry</td>
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<td>SAF8408 Health and Safety</td>
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<td>SUR8411 Construction Surveying I</td>
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## Level: 02
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<tr>
<td>CON8102 Commercial Building/Estimating</td>
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<td>CON8412 Construction Materials II</td>
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<tr>
<td>ENG8101 Statics</td>
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<tr>
<td>ENL1813T Communications I</td>
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<td>MAT8051 Algebra</td>
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<td>SUR8412 Construction Surveying II</td>
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Choose one from equivalencies:

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<td>CAD8400 AutoCAD I</td>
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<tr>
<td>CON8404 Civil Estimating</td>
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<td>CON8436 Building Systems</td>
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<td>ENG8102 Strength of Materials</td>
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<tr>
<td>ENG8411 Structural Analysis</td>
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<tr>
<td>ENG8454 Geotechnical Materials</td>
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<td>MGT8400 Project Administration</td>
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## Co-op: 01
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<tr>
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<tr>
<td>WKT2101C Construction Work Term 1</td>
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## Level: 04
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<td>CAD8405 AutoCAD II</td>
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<td>CON8413 Construction Building Code</td>
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<td>CON8476 Business Principles</td>
<td>42.0</td>
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<td>ENG8328 Hydraulics</td>
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<tr>
<td>ENG8404 Introduction to Structural Design</td>
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<tr>
<td>ENL2019T Technical Communication for Engineering Technologies</td>
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<tr>
<td>ENV8400 Environmental Science and Management</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 Estimator tool at [https://www.algonquincollege.com/fee-estimator](https://www.algonquincollege.com/fee-estimator).

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 per year. Most supplies can be purchased at the campus store. See [https://www.algonquincollege.com/coursematerials/](https://www.algonquincollege.com/coursematerials/) for more information about books.

Students are expected to purchase CSA-approved safety footwear and safety glasses, which are required at the start of the term.
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 MCT4C) or (Grade 11 MCR3U) or equivalent.

• Applicants with (Grade 12 MAP4C with a grade of 60% or higher) or (Grade 11 MCF3M with a grade of 50% or higher) will be required to take additional preparatory mathematics as part of their program of study.

• A background in science (especially physics and chemistry) is recommended.

• 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 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 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

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• Applicants with (Grade 12 MAP4C with a grade of 60% or higher) or (Grade 11 MCF3M with a grade of 50% or higher) will be required to take additional preparatory mathematics as part of their program of study.

• A background in science (especially physics and chemistry) is recommended.
• 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 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

CONSTRUCTION ENGINEERING TECHNICIAN (CO-OP AND NON CO-OP VERSION)
Program Code 0190X01FWO

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: 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 though 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.

Degree pathways allow graduates to use their college education towards the completion of a degree in partnership with a university. View current articulation agreements at: https://www.algonquincollege.com/degree-pathways/list/.

OACETT (Ontario Association of Certified Engineering Technicians and Technologists) recognizes the Construction Engineering Technician program as meeting all the academic requirements for certification in the Certified Technician (CTech) category and recognizes the Civil Engineering Technology program as meeting all of the academic requirements for certification in the Certified Engineering Technologist (CET) or Applied Science Technologist (AScT) category. Graduates and final year students are immediately eligible to be registered as Associate members of OACETT upon submission of the Graduate Application form available through the Placement Office or OACETT. Additional requirements to become fully certified (work experience, the OACETT Professional Practice Examination, peer references, etc.) will be requested once the application has been received. Requirements for certification are the jurisdiction of OACETT.

Students who begin Level 01 in January take level 02 in the spring term.

**Note:** Students who are not successful in SUR8411-Construction Surveying I and/or CON8411-Construction Materials I and/or GIS5001-Geographical Information Systems will be withdrawn from the program and must reapply to Level 01 through ontariocolleges.ca.

For more program information, please contact Nahlah Al-Ogaidi, Program Coordinator, at 613-727-4723 ext. 6293 or mailto:alogain@algonquincollege.com.

**Course Descriptions**

**CAD8400 AutoCAD I**

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

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

**CAD8405 AutoCAD II**

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

Prerequisite(s): CAD8400
Corerequisite(s): none

**CON8101 Residential Building/Estimating**

The principles of residential building and estimating are essential tools for the modern workplace. Plan reading and construction methods for residential wood-frame construction are introduced. Examples of residential plans are used, along with the Ontario and/or National Building Code, to explain construction procedures. Students learn an organized approach to properly take off the quantities of materials required, price the items and assemble a complete cost estimate.

Prerequisite(s): none
Corerequisite(s): none
CON8102 Commercial Building/Estimating

The principles of commercial building and estimating are essential tools for the modern workplace. Plan reading and construction methods for commercial construction are introduced. Examples of commercial plans are used, along with the Ontario and/or National Building Code, to illustrate construction procedures. Students gain an organized approach to properly take off the quantities of materials required, price the items and assemble a complete cost estimate.

Prerequisite(s): CON8101
Corerequisite(s): none

CON8404 Civil Estimating

The principles of estimating civil engineering projects allow planners and contractors to accurately predict the costs and the impact of their activity. Building on the organized approach learned in earlier estimating courses, students focus on the theories and practices related to civil projects, such as roads, bridges and municipal services, such as sewers and water mains.

Prerequisite(s): CON8102
Corerequisite(s): none

CON8411 Construction Materials I

Grounding in the physical characteristics and standard testing methods of materials, such as soils and aggregates, is essential to students of construction engineering disciplines. Lectures are reinforced with labs to provide a foundational level of competence in the vocabulary and vocational skills related to materials used in construction projects. Students learn about strength of materials testing, as well as standard sieve, compression and Proctor testing methods.

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

CON8412 Construction Materials II

A grounding in the physical characteristics and standard testing methods of materials, such as concrete, asphalt, steel and wood are essential to students of construction engineering disciplines. Students attend lectures and labs that provide a more advanced level of competence in the vocabulary and vocational skills related to materials used in construction projects.

Prerequisite(s): CON8411
Corerequisite(s): none

CON8413 Construction Building Code

An understanding of the standards and legal responsibilities associated with planning and building is essential to working successfully in Ontario. Students’ survey and gain knowledge about various legal instruments (principally the Ontario Building Code [OBC]) through lectures and practical assignments. An introduction to the structure and content of the OBC with an emphasis on Division B, Parts 3 and 9 (commercial buildings) is provided.

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

CON8436 Building Systems

A building is a complex structure, made up of many systems that must work in harmony to produce a working environment. Students are introduced to the theoretical concepts of Air Distribution Systems, Hydronic Heating Systems, Electrical Power Distribution and building protection equipment. Students learn how these interact with the design of a building.

Prerequisite(s): none
Corerequisite(s): none
CON8476 Business Principles

Students learn the fundamentals of business strategy and innovation, business creation, financing, costing, marketing, management, safety, law and ethics for a variety of business types, culminating in the completion of a professional Business Proposal and Plan.

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

ENG8101 Statics

Statics is the study of bodies at rest, or of forces in equilibrium. Students explore the physics of forces acting on simple structures, such as beams and trusses, as well as more complex structures, such as fluid vessels. The effects of loads on these structures is calculated, analyzed and illustrated with standard representation techniques used in the industry.

Prerequisite(s): MAT8050 or MAT8100 or MAT8050P
Corequisite(s): none

ENG8102 Strength of Materials

Students learn about the importance of understanding how materials react to the environment in which they are used. This introductory theory course lays the necessary foundation for the more advanced structural design courses. The internal axial load, shear and bending moment on simple structural members is studied. The effects are expressed quantitatively in terms of stress and strain. Students assess the adequacy of typical members, such as beams, columns and shafts to theoretically predict various failure modes in these members.

Prerequisite(s): ENG8101
Corequisite(s): none

ENG8328 Hydraulics

Hydraulics is the study and the practical application of fluids in motion. Students become familiar with the principles of hydrostatic forces exerted on objects by fluids, such as the use of Bernoulli’s equation, fluid properties, energy losses, generic energy equation, buoyancy and forces due to fluid motion.

Prerequisite(s): ENG8101
Corequisite(s): none

ENG8404 Introduction to Structural Design

An understanding of structural design is essential to creating buildings that are safe, economical and aesthetically interesting. This introductory theory course builds upon principles and knowledge gained in earlier courses. Using the limit states design approach, Canadian design and building code, students gain experience calculating dead and live loads on structures. Students analyze statically determinate structures involving the design of simple members subjected to tensile or compressive forces.

Prerequisite(s): ENG8102 and ENG8411
Corequisite(s): none

ENG8411 Structural Analysis

It is important to understand how human-made structures react to the environment in which they are used. Students are introduced to the relationship between the applied loads on structures, and the resulting stress and deformation (expressed as strain). Other topics introduced include the relationship between stress, strain, and the Modulus of Elasticity in materials and an introduction to elementary design of structural members. Finally, an analysis of statically determinate and indeterminate beams, deflections and column buckling is carried out.

Prerequisite(s): ENG8101
ENG8454 Geotechnical Materials
Knowledge of the properties and qualities of earthen material is a key element of construction engineering proficiency. Students learn about the science of geotechnical materials as they are used in human constructions. The analysis of soils, the engineering of foundations and the safe excavating of earth in construction activity is introduced. Topics covered include soil typology, classification, and characterization, as well as the various methods of testing soils and evaluating results.

Prerequisite(s): CON8412
Corequisite(s): none

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
Corequisite(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
Corequisite(s): none

ENV8400 Environmental Science and Management
The sustainability of human and natural environments depends on an understanding of our impact on them. Students consider, discuss and further develop ideas related to environmental science. Topics include the significance of water quality and pollution management, the management of municipal solid waste as it relates to sustainable living, the importance of environmental site assessment processes and the technologies available for the remediation of contaminated sites.

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

GED0190 General Education Elective
Students choose one course, from a group of general education electives, which meets one of the following four theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, and Personal Understanding.

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

GIS5001 Geographic Information Systems
Geographic information affects many decisions made by businesses, communities and increasingly, by individuals. By exploring basic geographic concepts, such as location, coordinate systems, thematic mapping and Geographic Information Systems (GIS), students are introduced to scientific
and analytical geography. Topics include historical settlement patterns, spatial relationships between multiple geographic phenomena and the ethical use of geographic information. Students examine geographic data to analyze and reflect on patterns in social and physical geography.

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

**MGT8400 Project Administration**

The quality of planning, preparation, and oversight is a key factor in the success or failure of construction projects. Students are introduced to the principles of planning, administering, scheduling and monitoring the costs of a construction project. Topics include types of contractual arrangements, the stages and components of the tendering process, and the typical steps and processes involved in the administration of a construction project from planning to completion.

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

**SAF8408 Health and Safety**

Knowledge of occupational health and safety is increasingly important as a means of maintaining the functionality of a well-educated and highly-trained workforce. Through a combination of case studies, individual assignments, and analytical activities, students are exposed to regulations and standards related to the Occupational Health and Safety Act (OHSA) and the Workplace Hazardous Materials Information System (WHMIS).

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

**SUR8411 Construction Surveying I**

The use of tapes, levels, transits/theodolites, and total stations to determine distances, angles, and elevations for survey applications, such as level loops, profiles, cross sections and traverses are covered. Students work in groups to carry out survey exercises.

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

**SUR8412 Construction Surveying II**

Students demonstrate the practical application of survey theory and skills to the civil engineering field. Topics include horizontal, vertical and spiral curve calculations and calculating roadway super elevations.

Prerequisite(s): SUR8411
Corequisite(s): none

**WKT2101C Construction Work Term 1**

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 to construction engineering or civil engineering. 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 Construction Engineering 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 Co-op office assists in finding a placement; however, it is the student’s responsibility to find, apply and get the work term as if they were applying for a job.

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