BUILDING RENOVATION TECHNOLOGY PROGRAM (T148)

PROGRAM NAME	**Building Renovation Technology**
COURSE CODE	**T148**
SCHOOL	**School of Apprenticeship and Skilled Trades**
CENTRE	**Construction Engineering Technology**
LOCATION	**Casa Loma Campus**
DURATION	**3 years (6 semesters)**
EXPERIENTIAL LEARNING	**Manadatory Field Placement**
STARTING MONTH	**September, January**
CREDENTIAL	**Ontario College Advanced Diploma**
YEAR OF STUDY	**2018-2019**
METHOD OF STUDY	**FT**
APPLY TO	**Ontario Colleges**[1]

TUITION

$3,990.00 *

ADDITIONAL COST

*Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of programs starting in fall **2017**. Fees are subject to change for programs starting in fall 2018 and at later dates.

International students: Visit the International Fees and Related Costs[2] page for more information.

This program is designed to teach you new construction and building renovation skills from both an applied perspective and a management perspective, including carpentry techniques and new materials applications, while providing a solid understanding of the renovation-related trades.

Hands-on training takes place in fully equipped labs where students practice current techniques related to renovations and new home construction, using sustainable design principles. The third year of the program focuses on project management skills required to work in a supervisory role. You will also have an introductory exposure to the business skills that can be adapted to starting and running a renovation, custom home building or general contracting business.

Practical applications include:

- Residential construction and renovations
- Millwork
- Demolition
- Framing
- Finishes
- Drywall installation and finishing
- Site management
- Cabinetry
- Stair construction
- Building code
- Basic electrical, HVAC, and plumbing systems.

Business skills include:

- Business management
- Marketing
- Client relations
- Project management
- Site management
- Scheduling
- Controlling, estimating and bookkeeping
- Budgeting and financial management
- Inspections

You will also learn how to use and apply computer software and technology currently used in the construction industry, including spreadsheets, computer aided design, estimating, project management and presentation tools.

Note: When you enrol in the program in January, you are required to complete semester 2 in the summer (May to August) of the same year in order to continue into semester 3 in the fall.

This program is unique in Ontario.

PART TIME STUDY OPTIONS

Part-time study options are not available for this program; however, our Continuing Education department offers evening courses and part-time certificate programs in Building/Construction Technologies. See coned.georgebrown.ca

EXPERIENTIAL LEARNING

Manadatory Field Placement

YOUR FIELD STUDY OPTIONS

This program requires the successful completion of two semesters of field placement. George Brown works with employers and industry partners to identify potential work experience opportunities. Students are also strongly encouraged to pursue self-directed industry work experience opportunities they believe would provide the learning experiences they value and meet the learning outcomes of the program. This valuable work experience can in turn be added to your resume.

In addition to more formal on-the-job work experience, George Brown College endeavours to provide additional learning opportunities with real world challenges and clients. Find out more about field education[3] at our Industry Liaison Office.

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Develop and use strategies for ongoing professional development to remain current with industry changes, enhance work performance and explore career opportunities.
2. Comply with and monitor health and safety practices and procedures in accordance with current legislation and regulations.
3. Prepare quotes and monitor that work is completed in compliance with the rights and conditions of contractual obligations, the Ontario and/or National Building Codes, applicable laws, bylaws, standards and ethical practices in the building construction and renovation field.
4. Promote and maintain sustainability practices in the implementation of building construction and renovation projects.
5. Facilitate collaboration and interaction among a range of tradespersons and project stakeholders to support timely completion of building construction and renovation projects.
6. Review and interpret project plans and produce technical sketches and documents to support building construction and renovation projects.
7. Use technologies to obtain, analyze, organize and communicate building construction and renovation information.
8. Analyze and solve technical problems related to the design and implementation of building construction and renovation projects by applying the principles of advanced technical mathematics, building design and building science.
9. Select, maintain and safely use hand tools, and portable and stationary power tools, when performing layout, cutting, fitting and assembly operations.
10. Complete building and renovation stages, from site layout and footings to the application of interior and exterior finishes, in accordance with blueprint specifications and conservation principles.
11. Evaluate the methods employed and the use of equipment and materials involved in the completion of building construction and renovation projects.
12. Schedule, coordinate and monitor the progression of building construction and renovation projects by applying principles and strategies of project management.
13. Design and implement business strategies to develop home building, renovation and re-development enterprises.
14. Apply leadership, supervision and interpersonal skills to manage building construction and renovation projects.

REQUIRED COURSES

SEMESTER 1

Code	Course Name
BLDG1009	Residential Wood Frame Construction
DRFT1006	Architectural Plan Interpretation 1
GHUM1106	History of Architecture
COMM1007	College English
MATH1136	Mathematics for Building Technologies 1

SEMESTER 2

Code	Course Name
BLDG1050	Portfolio
BLDG1081	Construction Safety and Rigging
BLDG1082	Construction Layout
BLDG2003	ICI Renovation
DRFT2017	Architectural Plan Interpretation 2
GSCI1022	Building Science and the Environment
MATH1146	Mathematics for Building Technologies 2

SEMESTER 3

Code	Course Name
BLDG1020	Interior Millwork and Finishes
BLDG2033	Field Placement 1
BLDG2052	Methods of Measurement: Renovation and Redevelopment
BLDG3027	Deconstruction Methods
COMM1113	Professional Communications for Building Technologies
GNED	General Education Elective

SEMESTER 4

Code	Course Name
BLDG2008	Associated Trades – Applied Theory and Applications
BLDG2027	Field Placement 2
BLDG2050	Estimating
BLDG2071	Site Management and Industry Practices
GNED	General Education Elective

SEMESTER 5

Code	Course Name
BLDG3155	Business Management and Development (Sales and Management Strategy)
BLDG2047	Planning and Scheduling
BLDG3153	Residential Design 1 (CAD)
BLDG3154	Construction Economics and Real Estate Property Development
BLDG3157	Inspections
BLDG3158	Financial Management and Bookkeeping

SEMESTER 6

Code	Course Name
BLDG1013	Zoning and Building Regulations
BLDG1164	Fundamentals of Building Science
BLDG2022	Law and Construction Contracts
BLDG3026	Sustainable Building Rating Systems and Renovation Practices
BLDG3159	Residential Design 2 (CAD)
BLDG3161	Project Management, Construction Budgeting and Administration

General Education Electives

YOUR CAREER

Graduates may find employment in many areas of the renovation and construction field. Opportunities include:

- Renovation
- General contracting
- Custom home building
- Green technology
- Site supervision
- Project management
- Estimating
- Technical sales
- Home inspections
- Carpentry
- Self-employment

FUTURE STUDY OPTIONS

Qualified graduates may be eligible for direct entry into the third year of the George Brown College Honours Bachelor of Technology (Construction Management) (T312)[4] degree program. Bridge courses will be required.

For more information, see georgebrown.ca/T312_Diploma_to_Degree

EDUCATIONAL/DEGREE PATHWAY

Qualified graduates may be eligible for direct entry into the third year of the George Brown College Honours Bachelor of Technology (Construction Management) degree program. Bridge courses will be required.

For more information, see georgebrown.ca/T312_Diploma_to_Degree

ADMISSION REQUIREMENTS

Applicants are selected on the basis of their academic achievement, including the required courses, and any other selection criteria outlined below.

- Ontario Secondary School Diploma or equivalent**
- Grade 12 English (C or U)
- Grade 11 Math (M or U) or Grade 12 (C or U)

** MATURE STUDENT STATUS (19 YEARS OF AGE OR OLDER AND NO OSSD)

Mature Students may take the Admissions Assessment[5] for English and Math, OR may consider upgrading to achieve the credit(s) needed in English[6] and Math[7].

Please note that George Brown is committed to ensuring that applicants will succeed in their program of choice and meeting the minimum requirements does not guarantee admission to the program. Applicants may be required to have grades higher than the minimum requirements stated.

COURSE EXEMPTIONS

College or university credits may qualify you for course exemptions. Please visit georgebrown.ca/transferguide for more information.

INTERNATIONAL STUDENTS

Visit the International Admissions[8] page for more information.

CONTACT US

School of Apprenticeship and Skilled Trades
Phone: 416-415-5000, ext. 6711
Email: bmulveney@georgebrown.ca
Office: Casa Loma Campus, Room E308
For more information about George Brown College, you may also call the Contact Centre at 416-415-2000 (TTY 1-877-515-5559) or long distance 1-800-265-2002.

VISIT OUR CAMPUS

Do you have questions about this program or your career options? Join us for an on-campus Information Session. You'll have the opportunity to meet our friendly instructors and staff, ask questions and experience what it's like to be in a George Brown College classroom.
Sign up for an Information Session[9].

LINKS REFERENCE

[1]https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T148&lang=en

[2]http://www.georgebrown.ca/international/futurestudents/tuitionfees/

[3]http://www.georgebrown.ca/industry/cet/

[4]http://www.georgebrown.ca/programs/honours-bachelor-of-technology-construction-management-t312/

[5]http://www.georgebrown.ca/assessment/admi-pre/

[6]http://www.georgebrown.ca/upgrading-credits/english-diploma/

[7]http://www.georgebrown.ca/upgrading-credits/math-diploma/

[8]http://www.georgebrown.ca/international/futurestudents/applynow/

[9]http://www.georgebrown.ca/tours_technology/