

Bachelor of Applied Technology – Construction Science and Management (Co-op)

George Brown
The Toronto City College

To meet the urgent needs of the construction industry in Ontario, the Centre for Advanced Building Technologies at George Brown College will deliver the province's only four-year degree program in construction science and management. In Ontario's increasingly specialized and complex construction industry, project management now requires a solid education in building sciences as well as practical business and managerial training, including strong negotiating, organizational and interpersonal skills. This new degree program provides the in-depth theoretical preparation, project-based team learning and mandatory co-op work experience essential to meeting these requirements. Graduates of the Construction Science and Management degree program will bring to Ontario's vital construction industry both the innovation and specialized skills required to keep the province competitive and successful.



"As the industry expands and continues to change, it is imperative that individuals overseeing and managing construction projects are properly trained in all facets of the business."

*James Zippel
General Manager
Electrical Service & Projects, Ainsworth*

"It is a fact that the construction industry is the largest employer in the Greater Toronto Area. By producing future graduates who already have the necessary construction-specific skills as they start their careers will only help strengthen the long-term success of our industry."

*Greg Kozicz, President
Alberici Constructors, Ltd.*

Unique Features

This is the only Construction Science and Management degree in Ontario. The program includes a mandatory co-op component.

Career Paths

In this rapidly changing and growing industry, more and more highly trained Construction Managers are needed – managers who can successfully function within multidisciplinary teams of project managers, architects, engineers, regulators, environmental engineers, urban planners, contractors and trade contractors. As well, the industry needs managers with a comprehensive understanding of quality management systems and who possess a deep and broad technical background that transcends the specialized scope of the disciplines that comprise the rest of the team. Construction Managers plan, organize, direct, and control construction projects, managing the process from start to finish according to contracts, budgets, schedules, and specifications. Construction Managers:

- Provide cost planning and analysis with designers
- Prepare estimates for projects
- Prepare schedules and milestones for projects
- Monitor progress and develop time and cost reports

- Prepare contracts and negotiate design changes with architects, consultants, clients, suppliers and sub-contractors
- Develop and implement quality control programs
- Direct the purchase of materials and equipment
- Contract and manage sub-contractors and staff and supervise their activities
- Represent their company in business services and union contract negotiations
- Manage all documents for project procurement and implementation

Admission Requirements

- Ontario Secondary School Diploma with six OAC credits, or six grade 12 University (U) or University/College (M) courses, or equivalent.
- OAC English or Grade 12 English (U) and any OAC or grade 12 Mathematics (U).
- Final student selection will be based on academic performance in required courses as well as overall GPA.

Program Code

T302

For more information,
call the Centre for Advanced Building Technologies
at 416-415-5000 ext. 4398
or visit georgebrown.ca/buildingtechnologies