

BLOCKCHAIN DEVELOPMENT PROGRAM (T175)

PROGRAM NAME	Blockchain Development	TUITION	\$7,280.00* ‡
COURSE CODE	T175	ADDITIONAL COST	
SCHOOL	School of Computer Technology		
CENTRE	Arts, Design and Information Technology		*Amounts listed are the total of tuition, materials, student service and ancillary fees for the first two semesters of the program starting in Fall 2018. Fees are subject to change for programs starting in Fall 2019 and at later dates.
LOCATION	Casa Loma Campus		‡ semester 3 fees will consist of a flat fee of \$500.00 for Co-op Placement or Work Integrated Project, which is not included in the total above.
DURATION	1 year (3 semesters)		
FIELD EDUCATION	Mandatory Co-op or Work Integrated Learning		
STARTING MONTH	September, January		
CREDENTIAL	George Brown College Certificate		International students: Visit the International Fees and Related Costs ² page for more information.
YEAR OF STUDY	2019-2020		
METHOD OF STUDY	FT		FINANCIAL ASSISTANCE
APPLY TO	Ontario Colleges ¹		This program is not eligible for OSAP.



Looking to transition careers or fill in the gaps to gain advanced blockchain development skills?

This unique **Blockchain Development program** at George Brown College in Toronto focuses on designing and implementing decentralized applications by leveraging blockchain technology. The three-semester program is designed to also thoroughly cover full stack development to give potential students all the tools they need to succeed in this emerging and exciting field.

This program has been developed with the support of blockchain industry professionals and is taught in a full-time executive format of approximately 20 hours per week of study over a 26-week time period. Co-op and work integrated learning opportunities are available during the third semester of the program. It is the first certificate in blockchain offered by a Canadian college.

The skills you'll learn include:

- Smart contracts
- Design patterns for blockchain
- Distributed applications (dApps)
- Full stack development
- Blockchain architecture, security practices, laws and regulations, and more



FIELD EDUCATION OPTIONS

During the third semester of the program, students may choose whether to apply for a Co-op position or take a Work Integrated Learning course which includes an industry-sponsored project.

THE INDUSTRY

To support Toronto as a leading blockchain hub, George Brown College has partnered with ConsenSys³, ChainSafe Systems⁴ and other leaders in the industry to develop this program.

PROGRAM STANDARDS AND LEARNING OUTCOMES

The graduate has reliably demonstrated the ability to:

1. Communicate essential concepts related to blockchain technology and its industry applications.
2. Implement best security practices for blockchain solutions.
3. Design cryptoeconomic models to solve business problems.
4. Design the architecture of decentralized applications and systems.
5. Develop decentralized applications leveraging blockchain technology.
6. Explain the legal implications, regulations, and industry standards that are relevant to blockchain technology.
7. Apply IT project management principles and best practices.
8. Contribute to the field and blockchain community through various open source projects, partnerships, and community involvement.

REQUIRED COURSES

This is a three-semester program comprising case studies during which students will be engaged on an increasingly intense and independent basis with material of escalating

complexity. Course-oriented delivery supports this learning process.

SEMESTER 1

Code	Course Name
BCDV 1001	Introduction to Blockchain
BCDV 1003	Blockchain Architecture
BCDV 1004	Laws and Regulations
BCDV 1016	Intro to Smart Contracts
BCDV 1005	Industry Applications
BCDV 1002	Introduction to Blockchain Security Practices
BCDV 1006	Full Stack Development I
BCDV 1007	Full Stack Development II
BCDV 1008	Full Stack Development III
BCDV 1017	Full Stack Development IV

SEMESTER 2

Code	Course Name
BCDV 1009	Software Development Methodologies
BCDV 1010	Smart Contract Essentials
BCDV 1011	Design Patterns for Blockchain
BCDV 1012	dApp I
BCDV 1013	Advanced Smart Contracts
BCDV 1014	dApp II
BCDV 1018	Work Term Preparation

SEMESTER 3

Code	Course Name
TCOP 1006	Co-op
	OR
BCDV 1015	Work Integrated Project

YOUR CAREER

Graduates of this program may apply for positions that include:

- Blockchain Engineer
- Blockchain Developer
- Blockchain Architect
- Smart Contract Developer
- dApp Developer

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) with a grade of 60% or higher
- Grade 11 Math (M or U) or Grade 12 (C or U) with a grade of 60% or higher

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

Mature Students may take the Admissions Assessment⁵ for English and Math, OR may consider upgrading to achieve the credit(s) needed in English⁶ and Math⁷.

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.

***Please note that applicants who are submitting International transcripts require a Canadian equivalency evaluation. This can be obtained through ICAS (International Credential Assessment Service) at icas.ca or WES (World Education Services) at wes.org/ca⁸.

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 Admissions⁹ page for more information.

CONTACT US

School of Computer Technology¹⁰

Phone: 416-415-5000, ext. 4287

Email: computertechnology@georgebrown.ca

The office hours are 9 a.m. – 4 p.m.

Program Coordinator: Ceit Butler

Ceit.Butler@georgebrown.ca

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

The Blockchain Development program is offered through our School of Computer Technology¹¹ from our Casa Loma Campus¹² at 146 Kendal Avenue¹³. Sign up for an Information Session¹⁴ or Campus Tour¹⁵ to learn more about George Brown College and the program. You can also explore our virtual tour.¹⁶

LINKS REFERENCE

- ¹<https://collegeapply.ontariocolleges.ca/?collegeCode=GBTC&programCode=T175&lang=en>
- ²<http://www.georgebrown.ca/international/futurestudents/tuitionfees/>
- ³<https://new.consensus.net/>
- ⁴<https://chainsafe.io/>
- 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.wes.org/ca/>
- ⁹<http://www.georgebrown.ca/international/futurestudents/applynow/>
- ¹⁰<http://www.georgebrown.ca/computertechnology/>
- ¹¹<http://www.georgebrown.ca/computertechnology/>
- ¹²<http://www.georgebrown.ca/campuses/casa-loma/>
- ¹³<https://www.google.ca/maps/place/146+Kendal+Ave,+Toronto,+ON+M5R+1M3/data=!4m2!3m1!1s0x882b349c7146b3f7:0x6edb6695c6d490f6?sa=X&ved=0ahUKEwjvbuOybDbAhUB7oMKHfsYDNQQ8gEIKDAA>
- ¹⁴http://www.georgebrown.ca/computertechnology_info/
- ¹⁵http://www.georgebrown.ca/campus_tours/
- ¹⁶<http://vt.georgebrown.ca/>

George Brown College is continually striving to improve its programs and their delivery. The information contained in this calendar is subject to change without notice. It should not be viewed as a representation, offer or warranty. Students are responsible for verifying George Brown College admission, graduation, and fee requirements as well as any requirements of outside institutions, industry associations, or other bodies that may award additional designations concurrently with, or after completion of, a George Brown College program.