CRYPTOCURRENCY AND BLOCKCHAIN TECHNOLOGY

Program: BLCK
Credential: Ontario College Graduate Certificate
Delivery: Full-time + Part-time
Length: 2 Semesters
Duration: 1 Year
Effective: Winter 2024
Location: Barrie

Description

Interest in cryptocurrency and blockchain has skyrocketed in the past few years, and an increasing number of sectors, including finance, banking, computing, supply chain, software as a service (SaaS), artificial intelligence (AI), and internet of things (IoT) are discovering the benefits of this technology. In this program, students from a variety of backgrounds, such as financial services, business, and public administration, examine the technical underpinnings of cryptocurrencies and blockchain technology. They explore how this technology interacts with existing monetary and financial systems, and the opportunities that exist for innovation. An experiential approach is used to support students as they acquire the skills and knowledge needed to fill the notable gap that exists between the supply of and demand for specific industry knowledge in the decentralized financial sector.

Career Opportunities

The program gives students the opportunity to acquire deeper knowledge and skills in the field of cryptocurrencies and blockchain. Employment opportunities for program graduates may be found in various and inter-disciplinary positions at the intersection between management, computer science, and finance.

Job roles may include managerial positions in FinTech, RegTech industries or related posts in finance, regulation, and government offices, and senior administrator positions in the information and communications technology (ICT) marketplace as it relates to cryptocurrencies systems and blockchain application. Graduates may also become entrepreneurs and establish their own enterprises in the field of cryptocurrencies and blockchain.

Program Learning Outcomes

The graduate has reliably demonstrated the ability to:

1. design innovative systems and services that complement and extend the existing cryptocurrencies ecosystem to support the decentralized financial services sector;
2. predict the impact of cryptocurrencies on the concept of money, money supply, international financial markets, and money transfer systems in order to recommend decentralized financial solutions to clients;
3. research blockchain technology, cryptography, decentralized systems architectures, and information systems to develop business proposals for Blockchain systems and the services that address them;
4. adhere to ethical and legal guidelines to ensure data security, integrity, confidentiality, and corporate responsibility in the delivery of decentralized financial applications;
5. appraise the challenges and disruptive aspects of cryptocurrencies on the legal, accounting and regulatory structure of banking in order to recommend improvements to organizational performance through decentralized financial solutions;
6. apply entrepreneurial strategies to maximize the effectiveness of blockchain business initiatives;
7. conduct oneself in a professional manner when interacting with representatives of both the technology and business side of Fintech;
8. apply leadership and teamwork skills to establish and maintain professional relationships with coworkers, supervisors, and clients.

Program Progression

The following reflects the planned progression for full-time offerings of the program.

Winter Intake

- **Sem 1**: Winter 2024
- **Sem 2**: Summer 2024

Admission Requirements

Ontario college diploma, Ontario college advanced diploma, degree, or equivalent; education or experience in a business setting is desirable.

Graduation Requirements

11 Program Courses

Graduation Eligibility

To graduate from this program, a student must attain a minimum of 60% or a letter grade of P (Pass) or S (Satisfactory) in each course in each semester. The passing weighted average for promotion through each semester and to graduate is 60%.

Program Tracking

The following reflects the planned course sequence for full-time offerings of the Fall intake of the program. Where more than one intake is offered contact the program co-ordinator for the program tracking.

Semester 1		**Hours**
Program Courses		
BLCK 1000	Cryptocurrency and the Law	56
BLCK 1001	Introduction to Blockchain Technology	56
BLCK 1002	Decentralized Financial Systems and Cryptocurrency	56
BLCK 1003	Disruptive Innovation and Business Strategy	56
BLCK 1004	Money and Banking	56
	Hours	**280**
Semester 2		
Program Courses		
BLCK 1005	Cryptocurrencies in the Developing World	42
BLCK 1006	Financial Markets and Alternative Investments	42
BLCK 1007	Project Leadership in the Digital Age	42
BLCK 1008	Mechanics of Blockchain	42
BLCK 1009	Emerging Topics and Practical Considerations in Blockchains	56

BLCK 1010	Introduction to Python Programming Code	56
	Hours	**280**
	Total Hours	**560**

Graduation Window

Students unable to adhere to the program duration of one year (as stated above) may take a maximum of two years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

Disclaimer: *The information in this document is correct at the time of publication. Academic content of programs and courses is revised on an ongoing basis to ensure relevance to changing educational objectives and employment market needs.*

Program outlines may be subject to change in response to emerging situations, in order to facilitate student achievement of the learning outcomes required for graduation. Components such as courses, progression, coop work terms, placements, internships and other requirements may be delivered differently than published.