

# BLOCKCHAIN ENGINEERING TECHNOLOGY - BLOCKCHAIN MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6236

Effective May 2023

Division of Engineering, Business and Information Technologies (<http://catalog.lorainccc.edu/academic-programs/engineering-business-information-technologies/>)

The Blockchain Engineering Technology program provides a solid foundation in the principles of Blockchain technology, with an emphasis on the development, deployment, maintenance, troubleshooting of Blockchains, distributed applications, and smart contracts. Along with a broad general information technology background, students are given comprehensive information and training in computer programming languages that are pertinent to Blockchain technology and related applications. Typical job titles: Blockchain Developer, Blockchain Architect, Blockchain Smart Contract and Distributed Applications Specialist, Blockchain System Integrator and Applications Specialist. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

## First Year

Fall Semester		Hours
CMNW 101	A+ CERTIFICATION PREPARATION I	4
BLOC 114	BASICS OF BLOCKCHAIN	3
BLOC 120	PROGRAMMING ESSENTIALS	5
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY <sup>2</sup>	1
ENGL 161	COLLEGE COMPOSITION I	3
<b>Hours</b>		<b>16</b>

## Spring Semester

BLOC 210	DECENTRALIZED APPLICATIONS DEVELOPMENT (DAPPS)	5
CMNW 201	A+ CERTIFICATION PREP II	4
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS	3
MTHM 158	QUANTITATIVE REASONING	3
<b>Hours</b>		<b>15</b>

## Second Year

Fall Semester		Hours
Arts and Humanities Elective <sup>5</sup>		3
Natural Science Elective <sup>3</sup>		3-4
BLOC 130	BLOCKCHAIN LAWS, REGULATIONS, AND INDUSTRY STANDARDS	3
BLOC 220	SMART CONTRACT DEVELOPMENT	4
BLOC 287	WORK-BASED LEARNING I - BLOC	1
<b>Hours</b>		<b>14-15</b>

## Spring Semester

BLOC 230	ADVANCED SMART CONTRACT DEVELOPMENT	4
BLOC 247	BLOCKCHAIN CAPSTONE PROJECT AND SPECIAL TOPICS	4
BLOC 248	CERTIFIED BLOCKCHAIN DEVELOPER CERTIFICATION PREPARATION	4
CYBR 231	ETHICAL HACKING AND COUNTERMEASURES	4
BLOC 288	WORK-BASED LEARNING II - BLOC	1
<b>Hours</b>		<b>17</b>
<b>Total Hours</b>		<b>62-63</b>

1

Indicates that this course requires a prerequisite.

2

A student must register for the orientation course when enrolling for more than six credit hours per semester or any course that would result in an accumulation of 13 or more credit hours.

3

Student may take any Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) Natural Science course with or without a lab.

4

The blockchain core courses in this program may be earned through a competency-based education option. See your advisor for more information.

5

Select any Arts and Humanities Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

*Note: Students who have transferred in from an accredited institution recognized by LCCC with a GPA of 2.0 or higher with 12 or more semester credits are exempt from taking SDEV 101.*

Program Contact(s):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling/>).

1. Communicate Blockchain concepts and applicability in technical and non-technical environments using written, oral, and graphical communication.
2. Apply knowledge, techniques, and Blockchain-relevant programming skills to develop Blockchain solutions, implementation plans, smart contracts and distributed applications, based on best practices, regulations, and industry standards, to secure Blockchain data.
3. Conduct standard Blockchain tests, measurements, and experiments, and analyze and interpret the results.
4. Function effectively as a member of a technical team.