

BLOCKCHAIN ENGINEERING TECHNOLOGY - BLOCKCHAIN MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6236

Effective May 2022

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 ²	1
ENGL 161	COLLEGE COMPOSITION I	3
Hours		16

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
Hours		15

Second Year

Fall Semester		Hours
Arts and Humanities Elective		3
Natural Science Elective ³		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
Hours		14-15

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
Hours		17
Total Hours		62-63

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 Module 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.

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.

Arts and Humanities Electives

Code	Title	Hours
ARTS 243G	ART HISTORY I	3
ARTS 244G	ART HISTORY II	3
ARTS 245G	WORLD ART	3
ARTS 246	HISTORY OF PHOTOGRAPHY	3
ARTS 254	HISTORY OF AMERICAN ARCHITECTURE	3
ENGL 261G	MASTERPIECES OF BRITISH LITERATURE I	3
ENGL 262G	MASTERPIECES OF BRITISH LITERATURE II	3
ENGL 266G	AFRICAN AMERICAN LITERATURE	3
ENGL 269G	INTRODUCTION TO SHAKESPEARE	3
MUSC 262G	MUSIC AS A WORLD PHENOMENON	3
PHLY 165	BIOETHICS	3
PHLY 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
RELG 181G	INTRODUCTION TO WORLD RELIGIONS	3
RELG 261	RELIGION IN AMERICA	3
RELG 262G	INTRODUCTION TO EASTERN PHILOSOPHY	3
THTR 151G	INTRODUCTION TO THEATER	3

Program Contact(s):

Hikmat Chedid
440-366-7017
hchedid@lorainccc.edu

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.