

COMPUTER ENGINEERING TECHNOLOGY, COMPUTER AND DIGITAL FORENSICS MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6120

Effective May 2023

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

The computer engineering technology – computer and digital forensics major provides graduates with the skills necessary to enter careers in computer technology and digital forensics, and in the design, application, installation, operation and maintenance of computer, networks and other digital devices and associated equipment. Along with a general electronics background, students are given comprehensive information and training in digital forensics and data recovery tools and practices through this extensive, hands-on curriculum. Typical job titles: computer/digital forensic examiner, computer systems specialist, cybercrime specialist, installation technician and applications specialist. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

First Year

Fall Semester		Hours
CMNW 101	A+ CERTIFICATION PREPARATION I	4
CMNW 120	CYBER-FOREN CYBER CRIME THE LAW	4
ELCT 123	INTRODUCTION TO DATA ACQUISITION INSTRUMENTATION ¹	2
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 155	TECHNICAL MATHEMATICS I	4
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ²	1
Hours		18

Spring Semester

CMNW 121	DATA COLLECTION ANALYSIS AND FORENSIC TOOLS	4
ELCT 121	DIGITAL ELECTRONICS ¹	4
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS ³	3
Arts and Humanities Elective(s) ⁴		3
Hours		14

Second Year

Fall Semester		Hours
CMNW 145	NETWORK INSTALLATION/DIAGNOSTICS	4
CMNW 223	NETWORK FORENSICS AND INVESTIGATIVE TECHNIQUES ³	4

CMNW 221	PROGRAMMING IN C & C++ FOR ENGINEERING TECHNOLOGY APPLICATIONS ³	4
PHYC 150	GENERAL PHYSICS I ³	4
Hours		16
Spring Semester		Hours
CMNW 201	A+ CERTIFICATION PREP II ³	4
CMNW 224	CELL PHONE AND MOBILE DEVICE FORENSICS ³	4
CMNW 248	COMPUTER FORENSICS AND PROJECT MANAGEMENT CAPSTONE ³	6
Social Science Elective(s) ⁵		3
Hours		17
Total Hours		65

1

Indicates that this course has a prerequisite or may be taken concurrently.

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

Indicates that this course requires a prerequisite.

4

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

5

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

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/>).

More program information can be found on our website. (<https://www.lorainccc.edu/it/associate-of-applied-science-in-computer-engineering-technology-computer-and-digital-forensics-major/>)

1. Demonstrate knowledge, techniques, skills, and use of the appropriate digital forensics investigative tools

2. Apply math, science, digital forensics principles and tools to solve crimes

3. Communicate effectively the investigation analysis, procedures, and technical report findings to a variety of stake holders using written, oral, and graphical communication

Accelerated Pathway

The Accelerated Pathway for the Computer Engineering Technology - Computer and Digital Forensics Major, Associate of Applied Science is a helpful guide for students who desire the convenience of an extensive selection of online course offerings and who seek to complete their degree within as little as 15 months. Students are encouraged to enroll in 8 or 10 week sessions to maximize accelerated options. Please meet with an advisor to ensure the courses in this pathway align with your educational goals.

Course	Title	Hours
First Year		
Fall Semester		
CMNW 120	CYBER-FOREN CYBER CRIME THE LAW	4
CMNW 145	NETWORK INSTALLATION/DIAGNOSTICS	4
ELCT 123	INTRODUCTION TO DATA ACQUISITION INSTRUMENTATION	2
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 155	TECHNICAL MATHEMATICS I	4
SDEV 101	INTRODUCTION TO THE LCCC COMMUNITY ²	1
Hours		18
Spring Semester		
CMNW 121	DATA COLLECTION ANALYSIS AND FORENSIC TOOLS	4
ELCT 121	DIGITAL ELECTRONICS ¹	4
ENGL 164	COLLEGE COMPOSITION II WITH TECHNICAL TOPICS ³	3
Arts and Humanities Elective		3
Social Science Elective		3
Hours		17
Summer Semester		
CMNW 221	PROGRAMMING IN C & C++ FOR ENGINEERING TECHNOLOGY APPLICATIONS ³	4
CMNW 101	A+ CERTIFICATION PREPARATION I (1st 5 Week Session)	4
CMNW 201	A+ CERTIFICATION PREP II (2nd 5 week session) ³	4
Hours		12
Second Year		
Fall Semester		
CMNW 223	NETWORK FORENSICS AND INVESTIGATIVE TECHNIQUES ³	4
CMNW 224	CELL PHONE AND MOBILE DEVICE FORENSICS ³	4
CMNW 248	COMPUTER FORENSICS AND PROJECT MANAGEMENT CAPSTONE ³	6
PHYC 150	GENERAL PHYSICS I ³	4
Hours		18
Total Hours		65

1

Indicates that this course has a prerequisite or may be taken concurrently.

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

Indicates that this course requires a prerequisite.

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 251	AMERICAN LITERATURE I	3
ENGL 252	AMERICAN LITERATURE II	3
ENGL 253G	INTRODUCTION TO WORLD LITERATURE	3
ENGL 254G	INTRODUCTION TO HISPANIC LITERATURE	3
ENGL 255G	INTRODUCTION TO FICTION	3
ENGL 257G	INTRODUCTION TO POETRY	3
ENGL 259G	INTRODUCTION TO DRAMA	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
HUMS 151G	INTRODUCTION TO HUMANITIES	3
HUMS 261G	INTRODUCTION TO GREAT BOOKS: ANCIENT WORLD TO THE RENAISSANCE	3
HUMS 262G	INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY	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

Social Science Electives

Code	Title	Hours
HSTR 151G	CIVILIZATION I	3
HSTR 152G	CIVILIZATION II	3
HSTR 161	UNITED STATES I	3
HSTR 162	UNITED STATES II	3
HSTR 171G	THE WORLD SINCE 1900	3
HSTR 176	OHIO HISTORY	3
HSTR 252G	WOMEN IN WORLD HISTORY	3
HSTR 267G	AFRICAN AMERICAN HERITAGE	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3