

Computer & Digital Forensics

Careers

Lorain County Community College is now offering the Computer and Digital Forensics program. This associate of applied science degree prepares graduates with the necessary skills to find employment as computer forensics analysts, electronic and cyber discovery specialist, and a general computer engineering technologist. The majority of local and regional organizations from the following sectors have expressed have indicated their immediate need to hire graduates of this program or to use it to update the skills of their current employees: Law enforcement (local, state, and federal); law firms; software development companies; large accounting firms; banks, and insurance organizations with large computer networks. Additionally, graduates can start their own businesses with little capital requirement. Students will complete an ABET (Accreditation Board for Engineering and Technology) accredited program that guarantees transfer of credits.

Graduates of this program will have skills in a rapidly growing and under-served technical field in Northeast Ohio. Regionally, there are an estimated 96,000 IT professionals employed in Northeast Ohio across all industry sectors. This two-year LCCC program provides students with a college degree in a high demand area and guarantees maximum transferability.

Accreditation Board for Engineering and Technology (ABET): The program is designed to meet all ABET criteria, and is intended to become ABET accredited. This guarantees ease of transfer of earned college credits, encouraging students to pursue a Baccalaureate degree.

Job Outlook

Information technology employment forecasts by the Bureau of Labor Statistics for 2004-2014 are optimistic. Projection data suggests growth in IT jobs is anticipated to intensify throughout the U.S. Other experts refer to this as an “escalating” demand for technology-based workers and estimate as many as 20 million new high skill – high wage jobs to the year 2020. Regionally, there are an estimated 96,000 IT professionals employed in Northeast Ohio across all industry sectors. In 2006/2007, the greatest demand for information technology workers was for IT Application Specialists which comprised 31% of all IT jobs in the entire region.

Earnings

The Bureau of Labor Statistics reports a median income was \$60,000 for an associate degree graduate in computer security and forensics. According to a recent survey by ZDNET, certified computer digital forensics and information security personnel earn an average annual salary of \$95,000 and rank the fourth highest paid IT career.

Related Careers

- Computer Forensics Analysts
- Electronic And Cyber Discovery Specialist
- General Computer Engineering Technologist

Computer & Digital Forensics

Educational Opportunities in Computer and Digital Forensics

Associate of Applied Science

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 computers, 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 oriented curriculum.

Associate of Applied Science Curriculum Guide Credits

Fall Semester (First Year)

Course No.	Course Title	Credits
ELCT 111	Electrical Circuits I	3
ENGL 161	College Composition I	3
MTHM 121	Technical Mathematics I	4
SDEV 101	College 101	1
CMNW 120	Cyber-Forensics Cyber-crime and The Law	4
CMNW 101	A+ Certification Preparation I OR	3
TECN 111	Technical Problem Solving	4

Spring Semester (First Year)

CMNW 121	Data Collection, Analysis and Forensic Tools	4
ELCT 121	Digital Electronics *	4
ENGL 162	College Composition II >	3
MTHM	122 Technical Mathematics II >	3
Arts and Humanities Elective(s) OR Social Science Elective(s)*		3

Fall Semester (Second Year)

CMNW 145	Network Installation and Diagnostics	4
CMNW 223	Network Forensics & Investigative Techniques	4
CMNW 221	C, C++ and Linux for Hardware Interfacing	4
PHYC 151	General Physics I	5

Spring Semester (Second Year)

CMNW 201	A+ Certification Preparation II	4
CMNW 220	Data Communications	4
CMNW 222	Computer Forensics & Data Recovery Capstone	4
Arts and Humanities Elective(s) OR Social Science Elective(s) **		3
Total Credit Hours:		67/68

One Year Technical Certificate Credits

Fall Semester (First Year)

CMNW 101	A+ Certification Preparation I	4
CMNW 120	Cyber-Forensics Cyber-crime and The Law	4
CMWN 121	Data Collection, Analysis and Forensic Tools	4
MTHM 121	Technical Mathematics I	4
SDEV 101	College 101	1

Spring Semester (First Year)

CMNW 145	Network Installation and Diagnostic Tools	4
CMNW 221	C, C++ and Linux for Hardware Interfacing	4
CMNW 223	Network Forensics and Investigative Techniques	4
ENGL 161	College Composition I	3
Arts and Humanities Elective(s) OR Social Science Elective(s)**		3
Total Credit Hours:		35

Educational Opportunities through LCCC's University Partnership

University of Akron

Bachelor of Science in Computing Applications Specialist

The bachelor's degree requires the completion of 128 credits. Students take 96 of those credits at LCCC's tuition rate. Of the remaining 32 credits, 16 credits are delivered by Akron University, locally at the LCCC campus, reducing the time and transportation costs to a minimum. Additionally, all three stackable levels: the one-year technical stackable certificate, the associate stackable degree, and the bachelor's degree have been designed to allow completion within a three-year, time frame, if students choose to enroll during the summer semester. The graduate will be specialized in his/her industry choice through the industry-specific courses, and will be an attractive candidate for the job. Students can retrain and retool by pursuing only a small subset of the required courses. Students will enjoy a maximum transferability of their earned credits and degrees, since the program major will be Accreditation Board for Engineering and Technology (ABET).

About Lorain County Community College

Lorain County Community College continues to experience enrollment growth because attending LCCC is the most economical way to reach educational goals that help graduates become valuable players in the future economic growth of the county and region. Because of the variety and quality of learning opportunities LCCC provides, enrollment has grown 78 percent since 2000.

Lorain County Community College, which opened in 1963, is one of Ohio's leading colleges delivering credit programs at its Elyria campus and outreach centers in downtown Elyria, Lorain, Wellington and Brunswick. Plus more than 200 courses are offered via distance-learning education options, and the Associate of Arts degree can be completed entirely online.

Students can choose from more than 80 educational programs. Students can complete the first half — and sometimes more — of a bachelor's degree through LCCC's University Partnership, which brings eight universities to the LCCC campus offering 40 bachelor's and master's degree programs. Students can upgrade, retrain and improve current life skills.

In addition to providing a great education for those who enter college with aspirations of a degree, LCCC helps those who have changed their career goals, who want to broaden their horizons, and who want to return to work. LCCC provides learning and training for those who want to move up but find they need new or improved skills for the kind of professional opportunities they seek.

LCCC faculty is recognized locally and nationally for their work as professors and in other areas. They all have advanced degrees and real world experience and understand their primary responsibility at LCCC is to teach classes.

LCCC is fully accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools, which is the regional accrediting authority for Ohio colleges and universities. Since opening its doors, LCCC has served more than 300,000 people. More than six million students enroll annually in credit courses at America's community colleges, representing about 46 percent of all students in higher education and about 56 percent of all first-time college entrants.



Lorain County
Community College



The University
Partnership

of Lorain County Community College

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