



ENGINEERING TECHNOLOGY Industrial Computing Applications Specialist

Careers

Lorain County Community College is now offering the Industrial Computing Applications Specialist degree. This associate of applied science degree provides graduates with the skills necessary to design and implement software and hardware interfaces and networking of equipment with computers, computing devices and communication systems for a variety of industrial sectors including health care, law enforcement, manufacturing, logistics/transportation and other sectors.

According to 2006/2007 local data sources, application specialists comprise one-third of all IT positions in the Northeast Ohio region. Businesses in the region want IT workers who can apply technical IT applications to the business setting. Most important, employers are seeking workers with applied experience within a specific industry sector. This educational program incorporates industry-specific directed studies with local employers to ensure the experience required for employability. Through proper selection of industry-specific directed study and capstone courses, students will specialize in the equipment found in

their chosen specific industry sector, providing them the experience necessary to enter the job market with confidence.

Graduates will be proficient in both technical applications like the design, application, installation, operation, and maintenance of computers, networks, and other digital devices and associated equipment. Additionally, 100% of regional employers identified communication, project management, team work, business etiquette, and time management as skills sets paramount to IT occupations. Along with a general electronics background, students of this program will develop technical proposals, design, implement, and present in verbal and written form, and engage in instructor approved projects to enhance the skill sets employers are seeking.

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, including the Mahoning Valley.



*Lorain County
Community College*

Real Education. **Real** Jobs. A **Real** Future.

(800) 995-LCCC
www.lorainccc.edu

Industrial Computing Applications Specialist

Associate of Applied Science

This program is designed to prepare individuals for employment in a variety of industrial and business application positions. Graduates will be proficient in both technical applications like the design, application, installation, operation, and maintenance of computers, networks, and other digital devices and associated equipment.

Associate of Applied Science

Fall Semester (First Year)

Course No.	Course Title	Credits
CMNW 101	A+ Certification Preparation I	4
CMNW 145	Network Installation and Diagnostics	4
ENGL 161	College Composition I*	3
MTHM 121	Technical Mathematics I*	4
SDEV 101	College 101*	1

Spring Semester (First Year)

CMNW 201	A+ Certification Preparation II	4
ECNM 151	Macroeconomics	3
ELCT 121	Digital Electronics*	4
ENGL 162	College Composition II*	3
MTHM 122	Technical Mathematics II	3

Fall Semester (Second Year)

CMNW 121	Data Collection, Analysis and Forensics Tools	4
CMNW 221 C,	C++ and Linux for Hardware Interfacing	4
PHYC 151	General Physics I*	5
	Industry-Specific Directed Studies	4

Spring Semester (Second Year)

CMNW 220	Data Communications	4
CMNW 223	Network Forensics and Investigative Techniques	4
CMNW 2XX	Industrial Computing Applications Capstone	5
	Arts & Humanities Elective	3

Total Credit Hours: 66

One Year Technical Certificate

Fall Semester (First Year)

CMNW 101	A+ Certification Preparation I	4
CMWN 121	Data Collection, Analysis and Forensic Tools	4
CMNW 145	Network Installation and Diagnostic Tools	4
MTHM 121	Technical Mathematics I	4
SDEV 101	College 101	1

Spring Semester (First Year)

CMNW 201	A+ Certification Preparation II	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	
	Social Science Elective(s)**	3

Total Credit Hours: 35

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

1005 N Abbe Road
Elyria, OH 44035
www.lorainccc.edu