

AUTOMATION ENGINEERING TECHNOLOGY - SYSTEMS SPECIALIST MAJOR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6211

Effective May 2019

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

Integration is a key word in advanced technologies: combining different automated equipment, such as robots, into coordinated systems that complete specific tasks like loading/unloading machines, sorting, inspecting, and assembling parts. The automation engineering technology degree will train students to be a Systems Specialist. Concentration of abilities for installing and operating robots and other industrial material handling and processing technologies, as well as engineer and program equipment for systems integration. Graduates go on to become a systems design technician, factory sales/service representative, applications engineer, installation supervisor, systems integrator or production supervisor. 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
AETC 111 ROBOTICS/AUTOMATED MANUFACTURING	3
CADD 111 or TECN 115 INTRODUCTION TO COMPUTER AIDED DRAFTING ¹ or INDUSTRIAL BLUEPRINT READING	2
ELCT 111 ELECTRICAL CIRCUITS I	3
MTHM 121 TECHNICAL MATHEMATICS I ²	4
SDEV 101 COLLEGE 101 ³	1
TECN 111 TECHNICAL PROBLEM SOLVING	3
Hours	16

Spring Semester

AETC 121 PROGRAMMABLE LOGIC CONTROLLERS	3
ENGL 161 COLLEGE COMPOSITION I	3
MTHM 122 TECHNICAL MATHEMATICS II ²	3
TECN 121 FLUID POWER ¹	3
TECN 133 MECHANICAL SYSTEMS	3
Hours	15

Second Year

Fall Semester	Hours
AETC 211 WORKCELL INTERFACING ²	3
AETC 223 PROGRAMMABLE LOGIC CONTROLLERS II ²	3
PHYC 150 GENERAL PHYSICS I ²	4

TECN 131 MANUFACTURING PROCESSES I ¹	3
Arts and Humanities Elective(s)	3
Hours	16
Spring Semester	
AETC 231 FLEXIBLE MANUFACTURING SYSTEMS ²	3
AETC 241 INSTRUMENTATION AND CONTROL ²	3
ELCT 211 ELECTRICAL POWER AND DEVICES ²	4
ENGL 162 COLLEGE COMPOSITION II ²	3
TECN 211 FLUID POWER CONTROL SYSTEMS	2
Social Sciences Elective(s)	3
Hours	18
Total Hours	65

¹ Indicates that this course has a prerequisite or may be taken concurrently.

² Indicates that this course requires a prerequisite.

³ 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.

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 252G	WOMEN IN WORLD HISTORY	3
HSTR 267G	AFRICAN AMERICAN HERITAGE	3
PLSC 156	AMERICAN NATIONAL GOVERNMENT	3
PSYH 151	INTRODUCTION TO PSYCHOLOGY	3

Program Contact(s):

Scott Zitek
440-366-7024
rzitek@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>).

More program information can be found on our website. (<https://www.lorainccc.edu/engineering/automation-engineering/associate-of-applied-science-in-automation-engineering-technologies-systems-specialist>)