

# AUTOMATION ENGINEERING TECHNOLOGY - MAINTENANCE/REPAIR, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6210

Effective May 2019

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

The automation engineering technologies degree trains students to repair, troubleshoot and maintain automated equipment commonly used in industry such as robots and computer numerical control equipment (CNC). Students become valued members of a manufacturing team. Employment opportunities include: field service representative, factory service representative, maintenance technician, automation repair technician, robotics technician or maintenance 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	INTRODUCTION TO COMPUTER AIDED DRAFTING <sup>1</sup>	2
ELCT 111	ELECTRICAL CIRCUITS I	3
MTHM 121	TECHNICAL MATHEMATICS I <sup>2</sup>	4
SDEV 101	COLLEGE 101 <sup>3</sup>	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
Hours		16

## Spring Semester

AETC 121	PROGRAMMABLE LOGIC CONTROLLERS	3
ELCT 112	ELECTRICAL CIRCUITS II <sup>2</sup>	4
ELCT 115	FABRICATION PROCESS FOR ELECTRONICS	2
ENGL 161	COLLEGE COMPOSITION I	3
MTHM 122	TECHNICAL MATHEMATICS II <sup>2</sup>	3
Hours		15

## Second Year

Fall Semester		Hours
AETC 211	WORKCELL INTERFACING <sup>2</sup>	3
ELCT 233	ELECTRONIC DEVICES I <sup>2</sup>	4
ENGL 162	COLLEGE COMPOSITION II <sup>2</sup>	3
PHYC 150	GENERAL PHYSICS I <sup>2</sup>	4
TECN 121	FLUID POWER <sup>1</sup>	3
Hours		17

## Spring Semester

AETC 241	INSTRUMENTATION AND CONTROL <sup>2</sup>	3
ELCT 211	ELECTRICAL POWER AND DEVICES <sup>2</sup>	4
ELCT 234	ELECTRONIC DEVICES II <sup>2</sup>	4
Select six credits from the following Arts and Humanities Elective(s) OR Social Sciences Elective(s)		6
Hours		17
Total Hours		65

<sup>1</sup> Indicates that this course has a prerequisite or may be taken concurrently.

<sup>2</sup> Indicates that this course requires a prerequisite.

<sup>3</sup> Indicates that this course has a prerequisite or may be taken concurrently.

## 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
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):

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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/engineering/automation-engineering/associate-of-applied-science-in-automation-engineering-technology-maintenancerepair>)