

# MANUFACTURING ENGINEERING TECHNOLOGY - INDUSTRIAL ELECTRICAL TECHNICIAN, ASSOCIATE OF APPLIED SCIENCE

Curriculum Code #6215

Effective May 2018

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

The industrial electrical technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level electrical maintenance technician. The graduate will repair, test, adjust or install electronic equipment. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

Course	Title	Hours
<b>First Year</b>		
<b>Fall Semester</b>		
CISS 121	MICROCOMPUTER APPLICATIONS I	3
ELCT 111	ELECTRICAL CIRCUITS I	3
ENGL 161	COLLEGE COMPOSITION I	3
ENGR 120	INTRODUCTION TO ENGINEERING	1
MTHM 121	TECHNICAL MATHEMATICS I	4
SDEV 101	COLLEGE 101 <sup>1</sup>	1
Hours		15
<b>Spring Semester</b>		
AETC 121	PROGRAMMABLE LOGIC CONTROLLERS	3
CMMC 151	ORAL COMMUNICATION	3
ELCT 112	ELECTRICAL CIRCUITS II <sup>2</sup>	4
ELCT 121	DIGITAL ELECTRONICS <sup>2</sup>	4
TECN 133	MECHANICAL SYSTEMS	3
Hours		17
<b>Summer Semester</b>		
ELCT 287	WORK-BASED LEARNING I - ELCT <sup>2,3</sup>	1
Hours		1
<b>Second Year</b>		
<b>Fall Semester</b>		
AETC 223	PROGRAMMABLE LOGIC CONTROLLERS II <sup>4</sup>	3
AETC 241	INSTRUMENTATION AND CONTROL	3
ELCT 211	ELECTRICAL POWER AND DEVICES <sup>2</sup>	4
PHYC 150	GENERAL PHYSICS I <sup>2</sup>	4
Hours		14
<b>Spring Semester</b>		
ELCT 223	ELECTRICAL BLUEPRINT READING	2

ELCT 224	INDUSTRIAL ELECTRONICS <sup>2</sup>	4
QLTY 236	RELIABILITY CENTERED MAINTENANCE <sup>4</sup>	3
Arts and Humanities Elective		3
Social Sciences Elective		3
Hours		15
Total Hours		62

- <sup>1</sup> 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.
- <sup>2</sup> Indicates that this course requires a prerequisite.
- <sup>3</sup> This course offers an opportunity for experiential learning.
- <sup>4</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
HUMS 262G	INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY	3
HUMS 271G	INTRODUCTION TO MYTHOLOGY	3
HUMS 274	FILM APPRECIATION	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
SOCY 151G	INTRODUCTION TO SOCIOLOGY	3

Program Contact(s):

**Glenn Vasiloff**

440-366-7009

[gvasilof@lorainccc.edu](mailto:gvasilof@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>). (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>)

**More program information can be found on our website.** (<https://www.lorainccc.edu/engineering/manufacturing-engineering/associate-of-applied-science-in-manufacturing-engineering-technology-industrial-electrical-technician>)