

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

Curriculum Code #6215

Effective May 2017

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 |
|------------------------|--|-------|
| First Year | | |
| Fall Semester | | |
| 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 ¹ | 1 |
| Hours | | 15 |
| Spring Semester | | |
| AETC 121 | PROGRAMMABLE LOGIC CONTROLLERS | 3 |
| CMMC 151 | ORAL COMMUNICATION | 3 |
| ELCT 112 | ELECTRICAL CIRCUITS II ² | 4 |
| ELCT 121 | DIGITAL ELECTRONICS ² | 4 |
| TECN 133 | MECHANICAL SYSTEMS | 3 |
| Hours | | 17 |
| Summer Semester | | |
| ELCT 287 | WORK-BASED LEARNING I - ELCT ^{2,3} | 1 |
| Hours | | 1 |
| Second Year | | |
| Fall Semester | | |
| AETC 223 | PROGRAMMABLE LOGIC CONTROLLERS II ⁴ | 3 |
| AETC 241 | INSTRUMENTATION AND CONTROL | 3 |
| ELCT 211 | ELECTRICAL POWER AND DEVICES ² | 4 |
| PHYC 150 | GENERAL PHYSICS I ² | 4 |
| Hours | | 14 |
| Spring Semester | | |
| ELCT 223 | ELECTRICAL BLUEPRINT READING | 2 |

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|------------------------------|---|----|
| ELCT 224 | INDUSTRIAL ELECTRONICS ² | 4 |
| QLTY 236 | RELIABILITY CENTERED MAINTENANCE ⁴ | 3 |
| Arts and Humanities Elective | | 3 |
| Social Sciences Elective | | 3 |
| Hours | | 15 |
| Total Hours | | 62 |

¹ 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.

² Indicates that this course requires a prerequisite.

³ This course offers an opportunity for experiential learning.

⁴ Indicates that this course has a prerequisite or may be taken concurrently.

Arts and Humanities Electives

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|-----------|---|---|
| ARTS 243G | ART HISTORY I | 3 |
| ARTS 244G | ART HISTORY II | 3 |
| ARTS 245G | WORLD ART | 3 |
| ARTS 246 | HISTORY OF PHOTOGRAPHY | 3 |
| ARTS 254G | 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 261G | MASTERPIECES OF BRITISH LITERATURE I | 3 |
| ENGL 262G | MASTERPIECES OF BRITISH LITERATURE II | 3 |
| ENGL 266G | AFRICAN AMERICAN LITERATURE | 3 |
| ENGL 255 | 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 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

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|-----------|------------------------------|---|
| 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):

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For information about admissions, enrollment, transfer, graduation and other general questions, please contact your Advising and Counseling 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>)