

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

Curriculum Code #6216

Effective May 2023

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

The industrial mechanical technician program is designed to provide students with the knowledge and skills necessary for the competent performance as an entry-level mechanical maintenance technician. The graduate will be able to perform journeyman level work in installing, repairing, maintaining, and testing of mechanical systems. Lorain County Community College has articulation agreements with colleges and universities including programs offered by LCCC's University Partnership.

First Year

| Fall Semester | | Hours |
|---------------|---|-----------|
| CISS 121 | MICROCOMPUTER APPLICATIONS I | 3 |
| ELCT 124 | INDUSTRIAL ELECTRICITY | 3 |
| ENGR 120 | INTRODUCTION TO ENGINEERING | 1 |
| MTHM 155 | TECHNICAL MATHEMATICS I | 4 |
| SDEV 101 | INTRODUCTION TO THE LCCC COMMUNITY ¹ | 1 |
| WTEC 108 | OXY-FUEL WELDING AND CUTTING ² | 2 |
| WTEC 111 | WELDING SPECIFICATIONS/PRINT READING | 2 |
| Hours | | 16 |

| Spring Semester | | Hours |
|-----------------|--|-----------|
| ENGL 161 | COLLEGE COMPOSITION I | 3 |
| TECN 115 | INDUSTRIAL BLUEPRINT READING | 2 |
| TECN 121 | FLUID POWER ² | 3 |
| TECN 131 | MANUFACTURING PROCESSES I ² | 3 |
| TECN 133 | MECHANICAL SYSTEMS | 3 |
| Hours | | 14 |

| Summer Semester | | Hours |
|-----------------|---|----------|
| TECN 287 | WORK BASED LEARNING I - TECN ^{3,4} | 1 |
| Hours | | 1 |

Second Year

| Fall Semester | | Hours |
|---------------|---|-------|
| CMMC 151 | ORAL COMMUNICATION | 3 |
| QLTY 122 | BASIC QUALITY TOOLS AND APPLICATIONS | 3 |
| PHYC 150 | GENERAL PHYSICS I ³ | 4 |
| WTEC 116 | BASIC SHIELDED METAL ARC WELDING ² | 3 |

| Arts and Humanities Elective ⁵ | | 3 |
|---|---|-----------|
| Hours | | 16 |
| Spring Semester | | Hours |
| EMCH 112 | ENGINEERING MATERIALS | 3 |
| QLTY 236 | RELIABILITY CENTERED MAINTENANCE ² | 3 |
| TECN 220 | INDUSTRIAL PIPING & TUBING | 3 |
| WTEC 216 | WIRE FED PROCESSES ³ | 3 |
| Social Sciences Elective ⁶ | | 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 has a prerequisite or may be taken concurrently.

3

Indicates that this course requires a prerequisite.

4

This course offers an opportunity for experiential learning

5

Select any Arts and Humanities Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

6

Select any Social Science Ohio Transfer 36 (<http://catalog.lorainccc.edu/academic-information/transfer-module-requirements/>) course.

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/manufacturing-engineering/associate-of-applied-science-in-manufacturing-engineering-technology-industrial-mechanical-technician/>)

Demonstrate an ability to apply Math and Blue-print reading to perform mechanical systems Journeyman-level installation and maintenance.

Demonstrate an ability to apply engineering technology principals to test troubleshoot mechanical systems.

Demonstrate the ability to communicate effectively in an industrial setting in writing, orally, and graphically.