

# WELDING TECHNOLOGY - WELDING OPERATOR, ONE-YEAR TECHNICAL CERTIFICATE

Curriculum Code #6008

Effective May 2017

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

The welding technology program is designed to provide students with the knowledge, skills and behaviors necessary for the competent performance as an entry-level welding technician. The welding technician is the liaison between the welding engineer and the welder. The program is based on the occupational analyses and needs of the maintenance and fabrication welding industries. Employment opportunities exist in a variety of industries such as steel, construction, fabrication, pipelines and others. Students who complete the program may choose to take certain welding certification tests. Lorain County Community College has articulation agreements with colleges and universities including programs offered by Lorain County Community College's University Partnership.

Course	Title	Hours
<b>Fall Semester</b>		
AETC 111	ROBOTICS/AUTOMATED MANUFACTURING	3
MTHM 121	TECHNICAL MATHEMATICS I <sup>1</sup>	4
SDEV 101	COLLEGE 101 <sup>2</sup>	1
TECN 111	TECHNICAL PROBLEM SOLVING	3
WTEC 108	OXY-FUEL WELDING AND CUTTING <sup>3</sup>	2
WTEC 111	WELDING SPECIFICATIONS/PRINT READIN	2
WTEC 116	BASIC SHIELDED METAL ARC WELDING <sup>3</sup>	3
Hours		18
<b>Spring Semester</b>		
CADD 111	INTRODUCTION TO COMPUTER AIDED DRAFTING <sup>3</sup>	2
ENGL 161	COLLEGE COMPOSITION I	3
WTEC 216	WIRE FED PROCESSES <sup>1</sup>	3
WTEC 217	GAS TUNGSTEN ARC WELDING <sup>1</sup>	3
Select one of the following:		3
Arts and Humanities Elective		
Social Sciences Elective		
Hours		14
<b>Summer Semester</b>		
WTEC 112	WELDING CODES AND STANDARDS <sup>1</sup>	2
Hours		2
Total Hours		34

<sup>1</sup> Indicates that this course requires a prerequisite.

<sup>2</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>3</sup> Indicates that this course requires a prerequisite or may be taken concurrently.

## Arts and Humanities Electives

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 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 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

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

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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/welding/welding-operator-one-year-certificate>)