

WELDING TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE (AAS) DEGREE

DESCRIPTION: This associate degree program is a continuation of the Welding Fabrication certificate program. The degree introduces the student to more specialized structural and pipe welding skill training with related technical and general education courses. Graduates in this program could work in the aerospace, boiler and petroleum piping, construction, mining, manufacturing and fabrication, and maintenance welding industries. This degree is also transferrable to Ferris State University's Welding Engineering Technology baccalaureate program. Students have the option of concurrently working toward completing their AWS Sense Level I and II welding certificates.

GENERAL EDUCATION REQUIREMENTS CREDITS: 12

ENG 120 or	APPLIED COMMUNICATION (3/3) or
ENG 111	ENGLISH COMPOSITION I (3/3)
ENG 123 or	TECHNICAL COMMUNICATION (3/3) or
ENG 112	ENGLISH COMPOSITION II (3/3)
PLS 221	AMERICAN GOVERNMENT & POLITICS (3/3)
PHY 111	APPLIED PHYSICS (3/4)

CORE PROGRAM REQUIREMENTS CREDITS: 50

APP 100E	ELECTRICAL STUDIES FOR TRADES (3/4)
CAD 150	3D MODELING (3/4) ^A
MET 200	MATERIAL SCIENCE (3/4) ^A
MFG 101	MACHINING PROCESSES I (4/6) ^A
MFG 120	PRINT INTERPRETATION & PROCESSES (3/4) ^A
MTH 110 or	TECHNICAL MATH I (3/4) or
MTH 113	INTERMEDIATE ALGEBRA (4/4)
MTH 112 or	TECHNICAL MATH II (3/4) or
MTH 122	PLANE TRIGONOMETRY (3/3)
WLD 123	SMAW WELDING PROCESSES (4/6) ^A
WLD 124	GMAW & FCAW WELDING PROCESSES (4/6) ^A
WLD 240	GAS TUNGSTEN ARC & PIPE WELDING (4/6) ^A
WLD 242	WELDING FABRICATION (3/5) ^A
WLD 250	ADVANCED PIPE WELDING (5/8) ^A
WLD 252	SPECIALTY WELDING & TESTING PROCEDURES (5/8) ^A
WLD 260	WELDING AUTOMATION (3/4) ^A

MINIMUM 62 CREDIT HOURS/85 CONTACT HOURS

NOTES:

^A Included in occupational specialty.

GPA of 2.0 or higher must be maintained in occupational specialty courses

Students should meet with welding program advisor when registering for courses or planning to transfer for additional information and course recommendations.

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SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER)

MFG 101	MACHINING PROCESSES I (4/6) ^A	CREDITS: 17
MFG 120	PRINT INTERPRETATION & PROCESSES (3/4) ^A	
MTH 110 or	TECHNICAL MATH I (3/4) or	
MTH 113	INTERMEDIATE ALGEBRA (4/4)	
WLD 123	SMAW WELDING PROCESSES (4/6)	
MET 200	MATERIAL SCIENCE (3/4)	

YEAR 1 (SPRING SEMESTER)

CAD 150	3D MODELING (3/4)	CREDITS: 17
WLD 124	GMAW & FCAW WELDING PROCESSES (4/6)	
MTH 112 or	TECHNICAL MATH II (3/4) or	
MTH 122	PLANE TRIGONOMETRY (3/3)	
WLD 240	GAS TUNGSTEN ARC & PIPE WELDING (4/6)	
WLD 242	WELDING FABRICATION (3/5)	

YEAR 2 (FALL SEMESTER)

ENG 120 or	APPLIED COMMUNICATION (3/3) or	CREDITS: 14
ENG 111	ENGLISH COMPOSITION I (3/3)	
WLD 250	ADVANCED PIPE WELDING (5/8)	
PLS 221	AMERICAN GOVERNMENT & POLITICS (3/3)	
APP 100E	ELECTRICAL STUDIES FOR TRADES (3/4)	

YEAR 2 (SPRING SEMESTER)

ENG 123 or	TECHNICAL COMMUNICATION (3/3) or	CREDITS: 14
ENG 112	ENGLISH COMPOSITION II (3/3)	
WLD 252	SPECIALTY WELDING & TESTING PROCEDURES (5/8)	
WLD 260	WELDING AUTOMATION (3/4)	
PHY 111	APPLIED PHYSICS (3/4)	