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)
PHY 111 APPLIED PHYSICS (3/4)
PLS 221 AMERICAN GOVERNMENT & POLITICS (3/3)

CORE PROGRAM REQUIREMENTS  CREDITS: 50
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 254 CNC THERMAL CUTTING SYSTEMS (3/4) 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.