2023-2024

THE ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

The Associate of Applied Science Degree is designed for employment purposes, and it should not be assumed that the degree or the courses in the degree can be transferred to another institution. While a few institutions have recently begun to accept some courses in A.A.S. programs, the general rule is that courses in the A.A.S. degree are not accepted in transfer toward bachelor's degrees. Students to whom transfer is important should get assurance in writing in advance from the institution to which they wish to transfer.

ATTENTION STUDENTS: PLEASE SEE CURRENT CATALOG FOR ALL FEES AND CHARGES ASSOCIATED WITH THIS DEGREE.

DEGREE PLAN
ASSOCIATE OF APPLIED SCIENCE IN WELDING
Degree Code: 3509; CIP Code: 48.0508

The program is designed to prepare students for careers in welding and metal fabrication. Curriculum for the A.A.S. in Welding Technology degree is based on American Welding Society (AWS) standards. Course content emphasizes both the underlying theory as well as the hands-on repetition needed to build welding proficiency.

Student Learning Outcomes for A.A.S. Welding Program

1. Demonstrate safe and proper use of welding, cutting and grinding equipment.
2. Demonstrate the ability to make accurate measurements to within 1/16" tolerance using a tape measure and utilize essential mathematic concepts required in the welding, fabrication, and manufacturing industries.
3. Read and interpret fabrication blueprints to create layouts to specifications.
4. Identify and select suitable welding consumable materials and set up and operate welding equipment in such a manner as to produce a quality weld in accordance with established industry standards.
5. Identify the cause of various weld defects including slag inclusions, porosity, undercut and cracking.

In addition to these program-specific outcomes, the following general outcomes should apply:

6. Applications of Math and the Natural Sciences appropriate to degree or field of study.
7. Composition and Oral Communication.
8. Evaluation of diverse perspectives and cultures through Arts, Humanities, and Social Sciences.
9. Utilization of technology appropriate to degree or field of study.

Name: _____ Date: _____

Advisor: _____ Student ID# _____

COURSE CODE		COURSE NAME	CREDIT HOURS	HOURS COMPLETED
General Education Requirements (18 credit hours)				
CIS	1053	Computer Essentials	3	_____
ENG	1003	Composition I (must earn a "C" or better)	3	_____
ENG	1013	Composition II (must earn a "C" or better)	3	_____
MATH	1113	Applied Math or higher-level mathematics course	3	_____
COMM	1203	Oral Communication	3	_____
Social Science Elective (3 credit hours) (Select 1 Course) (Choose any three credit hour course from ECON 2313, GEOG, HIST, POSC, PSY, **OR** SOC)				
ECON	2313	Principles of Macroeconomics **OR** GEOG, HIST, POSC, PSY, or SOC course	3	_____
Welding Core (42 credit hours)				
MACH	1002	Metallurgy	2	_____
TECH	1012	Employment Strategies	2	_____
TECH	1032	Blueprints and Layouts	2	_____
TECH	1044	Computer Aided Design (CAD)	4	_____
WELD	1024	Shielded Metal Arc Welding (SMAW)	4	_____
WELD	1204	Gas Metal Arc Welding (MIG)	4	_____
WELD	1404	Gas Tungsten Arc Welding (TIG)	4	_____

COURSE CODE	COURSE NAME	CREDIT HOURS	HOURS COMPLETED
	Select 20 credit hours from any WELD course		
WELD	_____	4	_____
WELD	_____	4	_____
WELD	_____	4	_____
WELD	_____	4	_____
WELD	_____	4	_____

Program Total 60 Hours