# 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 and be aware that they may be required to complete additional lower-division courses to meet specified prerequisite course requirements for their chosen baccalaureate degree program upon Arkansas public university 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.

**Program 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.
6. Identify the different types of metal between steel, aluminum, copper, brass and stainless steel.

Students completing the general education core at ASUMH will have demonstrated proficiency in the following skills:

7. Applications of Math and the Natural Sciences appropriate to degree or field of study.
8. Composition and Oral Communication.
9. Evaluation of diverse perspectives and cultures through Arts, Humanities, and Social Sciences.
10. 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) | | | | |
| CPSI | 10003 | Computer Essentials | 3 | _____ |
| ENGL | 10103 | Composition I (must earn a "C" or better) | 3 | _____ |
| ENGL | 10203 | Composition II (must earn a "C" or better) | 3 | _____ |
| MATH | 10103 | Applied Math or higher-level mathematics course | 3 | _____ |
| SPCH | 10003 | Oral Communication | 3 | _____ |
| **Social Science Elective** (3 credit hours) (Select 1 course) | | | | |
| (Choose any three-credit hour course from ECON 21003, GEOG, HIST, PLSC, PSYC, **OR** SOCI) | | | | |
| ECON | 21003 | Principles of Macroeconomics **OR** GEOG, HIST, PLSC, PSYC, or SOCI course | 3 | _____ |
| **Welding Core** (42 credit hours) | | | | |
| MSTE | 10002 | Metallurgy | 2 | _____ |
| TECH | 10044 | Computer Aided Design (CAD) | 4 | _____ |
| TECH | 10132 | Employment Strategies | 2 | _____ |
| WELD | 10234 | Shielded Metal Arc Welding (SMAW) | 4 | _____ |
| WELD | 12004 | Gas Metal Arc Welding (MIG) | 4 | _____ |
| WELD | 14004 | Gas Tungsten Welding (TIG) | 4 | _____ |
| WELD | 21072 | Blueprints and Layouts | 2 | _____ |

| 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**