

WELDING

(AAS.WEL) ASSOCIATE IN APPLIED SCIENCE DEGREE

This program provides experiences which enable students to develop competencies necessary for employment in welding and other related occupations. Emphasis throughout the program is placed on developing skills in the following areas: safety, metal identification, oxy-acetylene welding, metal cutting processes, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding (including stainless steel and aluminum), machining, and blueprint reading. Students will gain valuable hands-on experience as they complete a minimum of 375 clock hours of Supervised Occupational Experience at an industry location.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-048	Applied Shop Computations	3.0
TEC-040	Blueprint Reading/Industry I	2.5
TEC-043	Industrial Safety	1.0
TEC-070	Properties of Metal	2.5
WEL-056	Metal Cutting and Fabrication	2.0
WEL-057	Welding Fundamentals	2.5
SEMESTER TOTALS		13.5

Second Semester

WEL-047	Shielded Metal Arc Welding I *	2.0
WEL-048	Shielded Metal Arc Welding II *	3.0
WEL-058	Gas Metal Arc Welding I *	2.0
WEL-059	Gas Metal Arc Welding II *	3.0
WEL-061	Gas Tungsten Arc Welding *	3.0
SEMESTER TOTALS		13.0

Summer Term

WEL-074	Welding S.O.E.	5.0
SEMESTER TOTALS		5.0

SECOND YEAR

First Semester		Hours
WEL-055	Pipefitting & Welding *	3.0
MTT-050	Intro to Machining Procedures	3.0
SOS-050	Human Relations	2.0
ENG-050	Writing for Industry	3.0
	Social Science Elective	3.0
SEMESTER TOTALS		14.0

Second Semester

WEL-060	Gas Metal Arc Welding III * +++	3.0
WEL-053	Gas Tung Arc Welding/Alum * +++	4.0
WEL-054	Gas Tung Arc/Ss * +++	2.0
IND-062	Rigging and Hoisting +++	1.0
SPE-111	Intro to Speech Communication	3.0
HED-178	Responding to Emergencies	2.0
SEMESTER TOTALS		15.0

- * There are prerequisites, course requisites, or minimum placement test scores for this course.
- ** Electives must be approved by the Program Coordinator
- + Course only offered fall semester
- ++ Course only offered spring and summer semester
- +++ Course only offered spring semester
- ++++ Course offered in summer term only
- ^ SOS 050 Human Relations and PSY 271 Introduction to Psychology cannot be used as a social science elective
- ^^ Consult Academic Advisor for appropriate course
- ^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours
- ^^^^ ECE 120 and ECE 125 must be taken the same semester

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