

Welding Technology – Advanced Level Welder

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 66

DEGREE CODE: WELDADVAAS

DESCRIPTION

The Associate of Applied Science – AWS Advanced Level Welder Emphasis provides students with the skills and knowledge necessary for successful employment as advanced level welders in welding and related metal working industries.

A continuation of the COA requirements, students will receive additional instruction in advanced SMAW and GTAW, pipe welding, welding codes and fabrication.

Upon completion of the AAS degree requirements, students may certify as AWS Advanced Level Welders.

STUDENT LEARNING OUTCOMES

- Demonstrate proper safety practices during welding operations.
- Read and interpret blueprints.
- Cut, prepare and fabricate parts from blueprints and drawings.
- Set-up, maintain and perform minor repairs to welding and associated equipment.
- Perform satisfactory welds in all positions.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (25 CREDITS)**MATHEMATICS (3 credits)**

MATH 120 or above (except MATH 122, 123)

ENGLISH COMPOSITION (3-5 credits)

See AAS policy p. 46 for courses

COMMUNICATIONS (3-5 credits)

BUS 108; COM 101, 102, 215; ENG 100, 101, 102, 107, 113, 114, 205; JOUR 102; THTR 105

HUMAN RELATIONS (3 credits)

ALS 101; ANTH 101, 112, 201, 205; HIST 105, 106, 107, 150, 151, 210, 247, 260; HMS 130, 135B, 265B; MGT 100B, 283; PHIL 135; PSC 201; PSY 101, 102, 207, 208, 261; SOC 101 or above

NATURAL SCIENCE (6 credits)

AST 101 or above; BIOL 101 or above; CHEM 103 or above; EGG 131, 132; ENV 101 or above; GEOG 103, 104, 117; GEOL 100 or above; HHP 123B, 124B; PHYS 110 or above

FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)

AM 145 or above; ANTH 101 or above (except 102); ART 101 or above; COM 101 or above; ECON 100 or above; ENG 223 or above; GEOG 106 or above; HIST 101 or above; International Languages 101B or above; MUS 101 or above; PHIL 101 or above; PSC 101 or above; PSY 101 or above; SOC 101 or above; THTR 100 or above; WMST 113

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

PSC 101; or HIST 101 and HIST 102; or HIST 101 and HIST 217

SPECIAL PROGRAM REQUIREMENTS (41 CREDITS)

IS 101	Introduction to Information Systems	3
MT 102B	Fundamentals of Electricity	4
WELD 115B	Welding Inspection and Testing Principles	3
WELD 131B	Blueprint Reading, Layout, and Sketching	3
WELD 132B	Oxy/Fuel, Plasma, and Carbon Arc-Air Cutting Operations	2
WELD 133B	SMAW (Stick)	4
WELD 134B	GTAW (Tig)	4
WELD 135B	GMAW (Mig)	2
WELD 137B	FCAW (Flux Core)	2
WELD 154B	D1.1 Structural Welding Code	3
WELD 214B	Fabrication Layout	3
WELD 218B	Pipe Welding Procedures	4
WELD 240B	Advanced GTAW	4

See Degree Plan on next page.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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FULL-TIME STUDENT DEGREE PLAN*Plan can be modified to fit the needs of part-time students by adding more semesters.*

FIRST SEMESTER	Credits
Complete Mathematics (see courses previous page)	3
Complete AAS English Composition p. 46	3-5
MT 102B Fundamentals of Electricity	4
WELD 115B Welding Inspection and Testing Principles	3
WELD 135B GMAW (Mig)	2
TOTAL CREDITS	15-17
SECOND SEMESTER	Credits
Complete Communications (see courses previous page)	3
Complete Human Relations (see courses previous page)	3
WELD 131B Blueprint Reading, Layout, and Sketching	3
WELD 132B Oxy/Fuel, Plasma, and Carbon Arc-Air Cutting Operations	2
WELD 137B FCAW (Flux Core)	2
WELD 154B DI.1 Structural Welding Code	3
TOTAL CREDITS	16
THIRD SEMESTER	Credits
Complete Natural Science (see courses previous page)	3
Complete Fine Arts/Humanities/Social Science (see courses previous page)	3
IS 101 Introduction to Information Systems	3
WELD 133B SMAW (Stick)	4
WELD 214B Fabrication Layout	3
TOTAL CREDITS	16
FOURTH SEMESTER	Credits
Complete Natural Science (see courses previous page)	3
Complete US/Nevada Constitutions (see courses previous page)	4-6
WELD 134B GTAW (Tig)	4
WELD 218B Pipe Welding Procedures	4
WELD 240B Advanced GTAW	4
TOTAL CREDITS	19-21
DEGREE PLAN TOTAL CREDITS	66-70

