

Welding Technology – Advanced Level Welder

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 60

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 (23 CREDITS)**MATHEMATICS (3 credits)**

MATH 104B or 116

ENGLISH COMPOSITION (3-5 credits)

Recommended: ENG 101 Composition I

COMMUNICATIONS (3 credits)

Recommended: COM 115 Applied Communication

HUMAN RELATIONS (3 credits)

Recommended: ALS 101 College Success

NATURAL SCIENCE (4 credits)

Required: MT 102B Fundamentals of Electricity

FINE ARTS/HUMANITIES/SOCIAL SCIENCES (3 credits)

Recommended: ART 107 Design Fundamentals I (2-D)

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

Recommended: PSC 101 Introduction to American Politics

SPECIAL PROGRAM REQUIREMENTS (37 CREDITS)

IS 101	Introduction to Information Systems	3
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*Add more semesters to modify this plan to fit part-time student needs.*

FIRST SEMESTER	Credits
Complete Mathematics (see courses previous page - Recommended: MATH 104B)	3
ALS 101 College Success	3
WELD 115B Welding Inspection and Testing Principles	3
WELD 135B GMAW (Mig)	2
WELD 137B FCAW (Flux Core)	2
TOTAL CREDITS	13
SECOND SEMESTER	Credits
Complete English Composition (see courses previous page - Recommended: ENG 101)	3-5
MT 102B Fundamentals of Electricity	4
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
TOTAL CREDITS	16-18
THIRD SEMESTER	Credits
COM 115 Applied Communication	3
ART 107 Design Fundamentals I (2-D)	3
IS 101 Introduction to Information Systems	3
WELD 134B GTAW (Tig)	4
WELD 154B DI.1 Structural Welding Code	3
TOTAL CREDITS	16
FOURTH SEMESTER	Credits
PSC 101 Introduction to American Politics	4
WELD 214B Fabrication Layout	3
WELD 218B Pipe Welding Procedures	4
WELD 240B Advanced GTAW	4
TOTAL CREDITS	15
DEGREE PLAN TOTAL CREDITS	60-62

