

A.S./Certificate: Welding 24-25



ABOUT THIS MAJOR

The Students who complete the associate degree have enhanced employability in the field of Welding Technology. They are well prepared for employment in a wide variety of welding applications including but not limited to, Shielded Metal Arc Welding (SMAW “Stick”), Gas Metal Arc Welding (GMAW “Mig”), Gas Tungsten Arc Welding (GTAW “Tig or Heliarc”). Students will also be able to read and interpret welding symbols and blue prints relating to welding application. Students will also have the experience and skills needed for welding inspection and management positions. The associate degree will also provide students with a broad range of knowledge with which to evaluate and appreciate the physical environment, the culture, and the society in which they live and with the ability to think and communicate clearly and effectively. For more information, visit the [Career and Technical Education](#) division.

TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of 60-semester units
- [2] Completion of General Education Requirements
- [3] Minimum grade point average of 2.0
- [4] A C or better in all courses required for the major

Residency: Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000: <http://ccr.oal.ca.gov>.

*To earn **Certificate only**: only the major & program electives courses are required and a must earn a minimum grade point average of 2.0

AS-Welding [Total Units 28]

Required Courses (28 units)	
WELD110 - Oxyacetylene Welding, Cutting and Brazing	2
WELD120 - Basic Shielded Metal Arc Welding	2
WELD130 - Advanced Shielded Metal Arc Welding	2
WELD135 - Gas Metal Arc Welding	2
WELD137 - Gas Tungsten Arc Welding Fundamentals	2
WELD212 - Performance Welding-Arc Welding Processes	4
WELD230 - Welding Symbols and Print Reading	3
WELD240 - Welding Layout	3
WELD260 - Certification Welding-L.A. City Building Code	4
WELD265 - Structural Flux Cored Arc Welding	4

Certificate only - Aerospace Welding [Total Units 18]

Required Courses (18 units)	
AFAB110 - Introduction to Aircraft Structures, Blueprints, and Manufacturing Documentation	3
WELD110 - Oxyacetylene Welding, Cutting and Brazing	2
WELD137 - Gas Tungsten Arc Welding Fundamentals	2
WELD142 - Aerospace Welding Processes	2
WELD200 - Advanced Aerospace Welding Processes	4
WELD230 - Welding Symbols and Print Reading	3

COUNSELING NOTE SECTION

Prerequisite: If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade to enroll in the next course. A satisfactory grade is a grade of “A,” “B,” “C” or “P”. Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop. Title 5, Section 55200(d)

AVC 24-25 CATALOG: [ACADEMIC POLICIES](#)

INFORMATION and RESOURCES

Tutoring Assistance	Career Center	AVC Student Health Services
Transfer Center	Office of Students with Disabilities	Palmdale Center
Basic Needs	Financial Aid	Counseling Division

RECOMMENDED PATHWAY AS- Welding

The Recommended Plan of Study is determined by the discipline faculty. All **Program Electives** for the Major and **General Education** Courses, Areas A-F, are recommended only. Except for ENGL 101, you can make other selections for this area if you choose ([See back page for options](#)).

- [*] = Courses will fulfill the completion requirements for Major & Gen Ed I
- [#] recommended courses may select other options.
- Electives are courses that count toward your credits for graduation, but not specific to degree of study
- Take classes in **Summer** or **Intersession** if needed to complete your degree in a timely manner!
- Fall/Spring: Max 19 units, 12-15 units Recommended.

TERM 1	
Course	Units
WELD 110	2
WELD 120	2
AVC Gen ED D1: ENGL 101	3
AVC Gen ED AREA A	3
AVC Gen Ed- AREA B	3
ELECTIVE	2
Total Units	16

TERM 2	
Course	Units
WELD 130	2
WELD 230	3
WELD 135	2
AVC Gen Ed- AREA C	3
AVC Gen Ed- AREA D2: #MATH 103	3
Elective	2
Total Units	16

TERM 3	
Course	Units
WELD 137	2
WELD 212	4
WELD 240	3
AVC Gen Ed- AREA E	3
AVC Gen Ed- AREA F	3
Total Units	15

TERM 4	
Course	Units
WELD 265	4
WELD 260	4
Elective	3
Elective	3
Total Units	14

RECOMMENDED PATHWAY Certificate- Aerospace Welding

The Recommended Plan of Study is determined by the discipline faculty.

TERM 1	
Course	Units
AFAB 110	3
WELD 110	2
TERM 2	
Course	Units
WELD 137	2
TERM 3	
Course	Units
WELD 142	4
WELD 230	3
TERM 4	
Course	Units
WELD 200	4
Total Units	18

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2024-2025 AVC General Education Requirements

Advising Form Effective Fall 2024 - Summer 2025

GE AREA	COMPLETED	IN PROGRESS	NEED
			<p>The requirements for an AA or AS degree include the following:</p> <ol style="list-style-type: none"> A minimum of 60 semester units; with at least 12 semester units completed in residence at AVC for an AA/AS degree (credit earned by examination will not be included in these 12 units); maximum of 12 pass/no-pass credit units can be accepted towards an AA/AS degree. Refer to each individual program for major requirements. All major courses as specified in the AVC catalog must be completed with a grade of "C" or better. An overall grade point average (GPA) of 2.0 ("C" average) is required. <p>Double counting: While a course may satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.</p> <p>Prerequisite: If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade in order to enroll in the next course. A satisfactory grade is a grade of "A," "B," "C" or "P". Students who enroll in classes for which they do not meet the prerequisites will be involuntarily dropped. Students will be notified of this involuntary drop. <i>Title 5, Section 55200(d)</i></p> <p>At least 3 units from each of the following areas below: A, B, C, D1, D2, E, and F. Minimum Total GE Units Required 21</p> <p>Legend: () = Newly Approved, Effective Fall 2024</p>
AREA A: NATURAL SCIENCES-Select at least 3 units			
A			<p>ANTH 101,(101H); ASTR 101,(101H); BIOL 100, 101*#, 101L*#, 102, 103, 104, (104H),110, 120, 201, 202, 204, 205; CHEM 101, 102, 110, 120, 210, 220; ELTE 101; ERSC 101; GEOG 101, 102; GEOL 101,(101H), 102; PHYS 101, 102, 110, 120, 211; PSCI 101 *#BIOL 101 & 101L must be taken concurrently</p>
AREA B: SOCIAL & BEHAVIORAL SCIENCES-Select at least 3 units			
B			<p>AJ 201, 204, 206; ANTH 102, 103, 110, 112,(112H), 140; BUS 101, 212; CFE 102, 103; COMM 217; DFST 105, 106, 110; ECON 100, 101,(101H), 102,(102H), 110; GEOG 105, 106, 110; HIST 101, 102, 104, 105, 107,(107H), 108, (108H),110, (110H), 111,(111H), 113, 114, 116, 118, 119; POLS 101, (101H),103, 200, 201, 202, 203; PSY 101,(101H) 200, 201, 212, 230, 232, 233, 234, 235, 236; SOC 101,(101H), 105, 110, 111, 112, 115, 116, 120, 200</p>
AREA C: HUMANITIES-Select at least 3 units			
C			<p>ART 100, 101,(101H),102, 103, 104, 106, 110, 113, 120, 132, 135, 136, 137, 140, 145, 150, 163, 170, 210, 213; CHIN 101, 102, 201, 202; COMM 112, 114, 214, 217, 219; DA 101; DFST 101, 102, 105, 106, 201, 202; ENGL 102, 111, 112, 221, 222, 225, 227, 230, 231, 235, 242, 253,(253H), 256, 257, 259, 265, 279 ; FREN 101, 102, 201, 202, 203; FTV 101, 103, 107, 108, 201, 203, 241, 251, 261; GER 101, 102, 201, 202 ; HIST 101, 102, 104, 105, 107,(107H), 108,(108H), 110,(110H), 111,(111H), 113, 115, 118, 119; LATN 101, 102, 201; MUS 101,(101H), 105,(106),(110), 111, 121, 131, 132, 151, 153, 185, 231, 232, 251A, 251B, 253A, 253B; MUSC 102, 103, 107,108, 109,(109); NF 150; PHIL 105,(105H), 106, 108, 109 (130), (140); PHOT 107; PHTC 101, 150, 201; SPAN 101, 110SS, 102, 201, 202, 210SS, 220SS; THA 101,(101H), 102, 103, 110, 115A, 115B, 116A, 116B, 117A, 117B, 118A, 118B, 121A, 121B, 130, 133, 225, 239, (239H)</p>
AREA D: LANGUAGE AND RATIONALITY			
Select 3 units from (1) and 3 units from (2). <u>Grade of "C" or better required in Area D1</u>			
D1			<p>D1 Academic Composition: ENGL 101, (101H)</p>
D2			<p>D2 Communication and Analytical Thinking: BUS 113; CA 103; CS 120, 121, 122, 123; COMM 101,(101H), 107, 109, 112, 114, 115, 201, 217, 219; ENGL 102,(102H), 103,(103H); GEOG 201, 205;MATH, 110, 115,(115H), 116, 120, 124, 128, 135, 140, 148, 150,(150H), 160, 220, 230, 250; PHIL 101, 106, 110, 201,(210)</p>
AREA E: ADDITIONAL BREADTH			
Select 3 units from Areas A, B, C, D2, or E *Courses must be taken from a discipline not previously selected			
E			<p>DA 111; HD 100, 101, 102, 103, 105; HE 101, 120, 201; KINT 100; LIB 107, 110; NF 100, 102, 103, 110 Any DA activity course(s) from DA 102-205, <u>except</u> DA 107A-C, 108, 109, and 111 Any Kinesiology Fitness (KINF) activity course, Intercollegiate Athletics (IATH) activity course, or up to 4 units for military experience</p>
AREA F: DIVERSITY STUDIES-Select 3 units			
F			<p>ANTH 102, 112,(112H); BUS 212; CFE 116; COMM 114, 217, 219; DFST 105, 106 ; ECON 110 ; ENGL 250, 253,(253H), 256, 257, 259; ETHN (110),(111), (112),(113), 257EN;FTV 201, 203; HE 201; HIST 110, (110H),111, (111H), 113 ; MUSC 107, 108; POLS 202; SOC 105, 110, 116; THA 239, (239H)</p>