



Certificate/AS-Welding and Aerospace Welding Certificate 23-24

Recommended Plan of Study - Counseling

All courses with a + sign indicate a pre-requisite or co-requisite

Term 1 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units	Term 3 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units
WELD 110, Oxyacetylene Welding, Cutting and Brazing		2	WELD 145+, Advanced Welding Processes		4
WELD 120, Basic Shielded Metal Arc Welding		2	WELD 240+, Welding Layout		3
General Education Area A (Science)		3	General Education Area E (Additional Breadth)		3
General Education Area B (Social Science)		3	General Education Area F (Diversity Studies)		3
General Education Area D1 (English 101+)		3	Elective		2
Elective		2			
		Total			15
Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units	Term 4 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units
WELD 130+, Advanced Shielded Metal Arc Welding		2	WELD 212+, Performance Welding-Arc Welding Processes		4
WELD 230, Welding Symbols and Print Reading		3	WELD 260, Certification Welding- L.A. City Building Code		4
General Education Area C (Humanities)		3	Elective		3
General Education Area D2		3	Elective		4
Elective		4			
(Summer: Max. 15 units, 12 units recommended)					
		Total			15

Transfer or Graduate

Take Summer classes if needed to complete the program in a timely manner.

The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call. Online Counseling is available: <https://www.avc.edu/student-services/counseling>

Certificate/Major Required Courses:	Units	AS General Education: 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
WELD 110, Oxyacetylene Welding, Cutting and Brazing	2	Area A Natural Sciences: (min. 3 units)
WELD 120, Basic Shielded Metal Arc Welding	2	ANTH 101, 101L
WELD 130+, Advanced Shielded Metal Arc Welding	2	ASTR 101+, 101L+
WELD 145+, Advanced Welding Processes	4	BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+,
WELD 212+, Performance Welding-Arc Welding Processes	4	CHEM 101+, 102+, 110+, 120+, 210+, 220+
WELD 230, Welding Symbols and Print Reading	3	ELTE 101
WELD 240+, Welding Layout	3	ERSC 101+
WELD 260, Certification Welding- L.A. City Building Code	4	GEOG 101+, 101L+, 102, 102L+
Units Required for the Certificate/Major:	24	GEOL 101+, 101L+, 102+, 102L+
<i>other requirements for degree</i>		PHYS 101, 102+, 110+, 120+, 211+
General Education	21-27	PSCI 101
Proficiency (See Proficiency Requirements)	*	Area B Social & Behavioral Sciences: (min. 3 units)
Electives	9-15	AJ 201, 204, 206
Minimum Units Required for AS Degree	60	ANTH 102, 103, 110, 112, 140
Other Requirements:		BUS 101, 212
• Minimum grade of "C" required on each course		CFE 102, 103+
• Maximum of 12 pass/no-pass units accepted for the Degree and 6 units for a Certificate		COMM 217+
• Refer to catalog or online website for course listings and descriptions		DFST 105, 106, 110
Aerospace Welding Certificate		ECON 100, 101+, 102+, 110
Certificate Courses: Complete 18 units	Units	GEOG 105, 106, 110
AFAB110 - Introduction to Aircraft Structures, Blueprints, and Manufacturing Documentation	3	HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116+, 118, 119
WELD110 - Oxyacetylene Welding, Cutting and Brazing	2	POLS 101, 103, 200, 201+, 202+, 203+
WELD137 - Gas Tungsten Arc Welding Fundamentals	2	PSY 101, 200+, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+
WELD142 - Aerospace Welding Processes	4	SOC 101, 105, 110, 111, 112, 115, 116, 120, 200+
WELD200 - Advanced Aerospace Welding Processes	4	Area C Humanities: (min. 3 units)
WELD230 - Weld Symbols and Print Read	3	ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140,
Units Required for the Certificate:	18	145, 150, 163+, 170+, 210+, 213+
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Term 1 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units	COMM 112, 114, 214+, 217+, 219+
AFAB110 - Introduction to Aircraft Structures, Blueprints, and Manufacturing Documentation	3	DA 101
WELD110 - Oxyacetylene Welding, Cutting and Brazing	2	DFST 101, 102+, 105, 106, 201+, 202+
Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units	ENGL 102, 111+, 112+, 221+, 222+, 225+, 227+, 230+, 231+, 235+, 242+,
WELD137 - Gas Tungsten Arc Welding Fundamentals	2	253+, 256+, 257+, 259+, 265+, 279+
Term 3 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units	FREN 101, 102+, 201+, 202+, 203+
WELD142 - Aerospace Welding Processes	4	FTV 101, 103, 107, 108, 201, 203, 241, 251, 261
WELD230 - Weld Symbols and Print Read	3	GER 101, 102+, 201+, 202+
Term 4 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units	HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 115, 118, 119
WELD200 - Advanced Aerospace Welding Processes	4	LATN 101, 102+, 201+
(Summer: Max. 15 units, 12 units recommended)		MUS 101, 105, 111, 121+, 131, 132+, 151+, 153+, 185+, 231+, 232+,
Total	18	251A+, 251B+, 253A+, 253B+

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MUSC 102, 103, 107, 108, 109
 NF 150
 PHIL 105, 106, 108, 109
 PHOT 107
 PHTC 101, 150+, 201+
 SPAN 101, 110SS, 102+, 201+, 202+, 210SS+, 220SS+
 THA 101, 102, 103, 110, 115A, 115B+, 116A+, 116B+, 117A+, 117B+,
 118A+, 118B+, 121A, 121B, 130, 133, 225+, 239

Area D Language & Rationality: (min. 3 units from (1) and 3 units from (2))

1. *Academic Composition:* Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.

ENGL 101+

2. *Communication and Analytical Thinking*

BUS 113+

CA 103

CS 120, 121, 122, 123

COMM 101, 107, 109, 112, 114, 115, 217+, 219+

ENGL 102+, 103+

GEOG 201, 205

MATH 110+, 115+, 116+, 120+, 124+, 128+, 135+, 140+, 148+

150+, 160+, 220+, 230+, 250+

PHIL 101, 106, 110, 201+

Area E - Additional Breadth: (min. 3 units)

From areas A**, B**, C**, D2**, or

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 DA102-205, except 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.

**** Courses must be taken from a discipline not previously selected.**

Area F Diversity Studies: (min. 3 units)

ANTH 102, 112

FTV 201, 203

BUS 212

HE 201+

CFE 116+

HIST 110, 111, 113

COMM 114, 217+, 219+

MUSC 107, 108

DFST 105, 106

POLS 202+

ECON 110

SOC 105, 110, 116

ENGL 250+, 253+, 256+, 257+, 259+

THA 239

Proficiency Requirements

Proficiency requirements exist for the areas of Writing and Math. Students must demonstrate competency in each of these areas in order to be eligible for the associate degree.

A. WRITING

Completion of ENGL 101 with a minimum grade of "C." NOTE: ENGL 101 may be taken with the Pass/No Pass option; however, students are cautioned that other colleges and universities may not accept ENGL 101 courses taken on a Pass/No Pass basis, especially for satisfaction of general education and major requirements. Students planning to transfer should check college catalogs for applicable policies.

B. MATHEMATICS

Completion of MATH 102 or higher or CIS 121 with a satisfactory grade or placement by AVC assessment into a math course higher than MATH 102.

***Fulfilling proficiencies** will not require any extra units if the competencies are demonstrated by including the required courses in the general education, or major requirements, or by satisfying the reading proficiency through AVC's policy.

Electives: The remaining number of units (up to a minimum of 60) are considered electives. Any course that has already been counted toward (1) the general education requirements, or (2) the major, cannot be used as an elective. Any course with a designation of "AVC" at the end of a course description can be used as an elective.

Grade Point Average Requirement: An overall grade point average of 2.0 ("C" average) is required.

Double Counting: While a course might 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.

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>

Requirements for Two or More Associate Degrees: To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

Transfer: Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: www.assist.org

The "**Catalog Rights Policy**" sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.

Advisory: A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Prerequisite: A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).

Corequisite: A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated co-requisite.