



Certificate/AS-Automotive Technology (Engines Drive Trains) 21-22

Recommended Program Sequence

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
Daytime: AUTO 211, Auto. Engines Operation & Repair	6	Daytime: AUTO 220, Automatic Transmissions and Transaxles	5
Nighttime: AUTO 250, Automotive Break Systems	5	Nighttime: AUTO 220, Automatic Transmissions and Transaxles	5
Nighttime: Program Elective	2-4	Nighttime: AUTO 230**, Manual Transmissions, & Transaxles	4
General Education Area E (Additional Breadth)	3	General Education Area B (Social Science)	3
General Education Area D1 (English 101)	3	General Elective	3
Nighttime: General Elective	1.5-2.5	General Elective	2
** These courses intended for night students		Order for classes and time to complete may vary for night students	
Total	12-15	Total	17
Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units	Term 4 (Fall/Spring: Max. 19 units, 12-15 u. recommended)	Units
Daytime: AUTO 125 Automotive Chassis	10	Daytime: Program Elective (If needed) Evening only	2
Nighttime: AUTO 111, Engine Rebuild (Low End)	4	Nighttime: AUTO 112, Engine Rebuilding (Upped End)	4
Nighttime: Auto 240, Auto Suspension & Steering	6	Nighttime: Program Elective (If needed) or General Elective	3
General Education Area D2 (Communication & Critical Thinking)	3	General Education Area F (Diversity Studies)	3
General Education Area C (Humanities)	3	General Education Area A (Science)	3
		General Elective	3
(Summer: Max. 15 units, 12 units recommended)		Total	16
Total	16	Total	16

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>

Engine & Drive Trains: Certificate/Major Required Courses:

AUTO 211, Automotive Engines Operation & Repair or AUTO 111** & AUTO 112** Auto. Engine Rebuilding	6-10
AUTO 125, Automotive Chassis or AUTO 250**, Automotive Brake Systems & AUTO 240, Automotive Suspension, Steering & Alignment & AUTO 230**, Manual Transmissions, Transaxles, and Drivelines.	10
AUTO 220, Automatic Transmissions & Transaxles	5
Program Electives	3-8

Program Electives Courses: Complete 3 to 8 units

AUTO 113+, Automotive Engine Rebuilding (Advanced)	4
AUTO 151, Automotive Chassis and Body Electrical Systems	4
AUTO 231, Automatic Transmissions (General Motors)	2
AUTO 232, Automatic Transmissions (Ford & Chrysler)	2
WELD 101, Welding Fundamentals	2

Units Required for the Certificate/Major: 26

other requirements for degree

General Education	21-27
Proficiency (See Proficiency Requirements)	*
Electives	7-13

Minimum Units Required for AS Degree 60

ASE CERTIFICATION: AVC is not a testing site. Suggested courses for the
*Automotive Service Excellence General Auto Mechanic Certification (ASE)

AUTO 125, Automotive Chassis (Spring only)	10
AUTO 150, Auto. Electrical Systems	10
AUTO 152, Auto. Ignition Systems (Spring only)	2
AUTO 175, Auto. Fuel, Emission Systems, and California Clean Air Car Course (Spring only)	10
AUTO 211, Automotive Engine Operation and Repair	6
AUTO 230, Manual Transmissions and Transaxles	4
AUTO 231, Automatic Transmissions (General Motors) (Spring	2
AUTO 232, Automatic Transmissions (Ford & Chrysler) (Fall only)	2

Units Required for the Certificate: 46

* Two years experience as a mechanic are required for the ASE certificate. A two-year full-time college program will suffice for one year of experience.

other requirements for Engine & Drive Trains degree

General Education	21-27
Proficiency (See Proficiency Requirements)	*
Electives	2-8

Minimum Units Required for AS Degree 60

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

Area A Natural Sciences: (min. 3 units)

ANTH 101, 101L
ASTR 101+, 101L+
BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+, 205+
CHEM 101+, 102+, 110+
ELTE 101
ERSC 101+
GEOG 101+, 101L+, 102, 102L+
GEOL 101+, 101L+, 102+, 102L+
PHYS 101, 102+, 110+, 120+, 211+
PSCI 101

Area B Social & Behavioral Sciences: (min. 3 units)

AJ 201, 204, 206
ANTH 102, 103, 112, 140
BUS 101
CFE 102
COMM 217+
DFST 105
ECON 100, 101+, 102+, 110
GEOG 105, 106, 110
HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116+, 118, 119
POLS 101, 103, 200, 201+, 202+, 203+
PSY 101, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+
SOC 101, 105, 110, 111, 112, 115, 116, 120

Area C Humanities: (min. 3 units)

ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140, 145, 150, 163+, 170+, 210+, 213+
CHIN 101, 102+, 201+, 202+
COMM 103, 112, 114, 214+
DA 101

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DFST 101, 102+, 105, 106, 201+, 202+
 ENGL 102, 111+, 112+, 221+, 222+, 225+, 227+, 230+, 231+, 235+, 242+, 253+, 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 115
 ID 150, 201 (ID courses no longer offered 20-21)
 LATN 101, 102+, 201+
 MUS 101, 105, 111, 131, 132+, 151+, 153+, 185+, 231+, 232+, 251A+, 251B+, 253A+, 253B+
 MUSC 102, 103, 107, 108
 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
 CIS 101, 111, 141, 157, 161
 COMM 101, 103, 107, 109, 112, 114, 115, 217+, 219+
 ENGL 102+, 103+
 GEOG 201, 205
 MATH 102+, 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	MUSC 108
CFE 102	HE 101, 120, 201 NF 100, 102, 103,
COMM 103, 107, 219+	*ID 100, 120 110, 150
DFST 105	KINT 100 PSY 212
HD 100, 101, 102, 103, 105	LIB 107, 110 SOC 111, 116

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.**

* ID courses no longer offered 20-21

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

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

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.

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 corequisite.

AUTO Course changes 2020-2021:

110->211
 130->220
 128->230
 127->240
 126->250
 150->260
 160 New
 270 New
 280 New