



# Certificate/AS-Aircraft Fabrication Assembly/Blueprints Structures 19-20

## Recommended Program Sequence

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

Term 1 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 5 (Semester: Maximum 19 units, 15 units recommended)	Units
AFAB 110, Introduction to Aircraft Structures, Blueprint & Manufacturing Documentation	3	AFAB 210+, Aircraft Production Systems	4
AFAB 115+, Aircraft Structures	8	General Education Area B (Social Science)	3
AFAB 120+, Composites Fabrication and Repair	7	General Education Area A (Science)	3
		General Education Area C (Humanities)	3
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>13</b>
Term 2: (Intersession(6/3)-Summer (9/6) Max./Recommended units)		Term 6: (Intersession(6/3)-Summer (9/6) Max./Recommended units)	
Term 3 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 7 (Semester: Maximum 19 units, 15 units recommended)	Units
AFAB 130, Aerospace Workplace Issues and Ethics	4	General Education Area F (Diversity Studies)	3
General Education Area D1 (English 101)	3	Electives	3
General Education Area D2 (Communication & Critical Thinking)	4	Electives	3
General Education Area E (Additional Breadth)	3	Electives	6
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>15</b>
Term 4: (Intersession(6/3)-Summer (9/6) Max./Recommended units)		<b>Graduate</b>	

Take Summer or Intersession 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.

### Certificate/Major Required Courses:

AFAB 110, Introduction to Aircraft Structures, Blueprint & Manufacturing Documentation	3
AFAB 115+, Aircraft Structures	8
AFAB 120+, Composites Fabrication and Repair	7
AFAB 130, Aerospace Workplace Issues and Ethics	4
AFAB 210+, Aircraft Production Systems	4
<b>Units Required for the Certificate/Major:</b>	<b>26</b>

other requirements for degree

General Education	21-27
Proficiency (See Proficiency Requirements)	*
Electives	13-19

**Minimum Units Required for AS Degree 60**

### Certificate: Blueprints & Structures Required Courses:

AFAB 110, Introduction to Aircraft Structures, Blueprint & Manufacturing Documentation	3
AFAB 115+, Aircraft Structures	8
AFAB 130, Aerospace Workplace Issues and Ethics	4
<b>Units Required for the Certificate:</b>	<b>15</b>

### Other Requirements:

- Minimum grade of "C" required on each course
- Maximum of 12 pass/no-pass units accepted for the Degree, units for a
- Refer to catalog or online website for course listings and descriptions

**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+,  
 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

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

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

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

# Certificate/AS-Aircraft Fabrication Assembly/Blueprints Structures 19-20

## Recommended Program Sequence

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 110, 106, 110, 201+

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

From areas A\*\*, B\*\*, C\*\*, D2, \*\* or  
 CFE 102                      NF 100, 102, 103, 110, 150  
 COMM 103, 107, 219+      PSY 212  
 DFST 105                      SOC 111, 116  
 HD 100, 101, 102, 103, 105  
 HE 101, 120, 201  
 ID 100, 120  
 KINT 100  
 LIB 107, 110  
 MUSC 108  
 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                      POLS 202+  
 BUS 212                              SOC 105, 110, 116+  
 CFE 116+                              THA 239  
 COMM 114, 217+, 219+  
 DFST 105, 106  
 ECON 110  
 ENGL 250+, 253+, 256+, 257+, 259+  
 FTV 201, 203  
 HE 201+  
 HIST 110, 111, 113  
 MUSC 107, 108

#### Proficiency Requirements:

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

#### A. READING

Complete ENGL 101 with a "C" or better or completion of READ 099 with a minimum grade of "P" (Pass), or completion of an Associate Degree or higher from a regionally accredited institution of higher

#### B. 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.

#### C. 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  
**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](http://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.