

# B.S. - Airframe Manufacturing Technology 24-25



## ABOUT THIS MAJOR

The Airframe Manufacturing Technology baccalaureate degree builds off of two existing high quality, successful programs that have provided well trained employees to meet the needs in our communities for many years. By expanding these programs

to include the opportunity to earn a baccalaureate degree, Antelope Valley College will now fill the need of local employers for a highly skilled lead worker in the same field and will provide a valuable opportunity for both our students and our community. For more information, visit the [Career and Technical Education](#) division.

### TO EARN A DEGREE A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of 122-126.5-semester units
- [2] Completion of General Education Requirements
- [3] A C or better in all courses required for the major

### BS- Airframe Manufacturing Technology [Total Units 122-126.5]

<b>Program Prerequisites:</b> Complete (3-7.5 units) from the following	
AFAB110 - Introduction to Aircraft Structures, Blueprints, and Manufacturing Documentation	3
OR	
AERO121 - Aircraft General II	7.5
<b>Program Prerequisites:</b> Complete (15 units) from the following	
AFAB115 - Aircraft Structures	8
AFAB120 - Composites Fabrication and Repair	7
OR	
AERO230 - Aircraft Airframe I	15
<b>Program Prerequisites:</b> Complete all the following (32 units)	
CHEM101 - Introductory Chemistry	5
COMM101 - Introduction to Public Speaking	3
ENGL101 - College Composition	3
ENGL115 - Introduction to Technical Communication	3
MATH135 - Plane Trigonometry	3
PHYS101 - Introductory Physics	4
PSY101 - General Psychology	3
AFAB130 - Aerospace Ethics and Issues	4
AFAB210 - Aircraft Production Systems	4

<b>Required History Course:</b> Choose One (3 units)	
HIST107 - U.S. History, 1607-1877	3
HIST108 - U.S. History from 1865	3
HIST110 - African-American History, 1450-1877	3
HIST111 - African-American History, 1877-Present	3
<b>Required Courses:</b> Complete all the following	
POLS101 - American Political Institutions	3
CSU GE Area C1: ARTS	6
CSU GE Area E: Lifelong Learning & Self-Development	3
AFMT310 - Safety in Aviation	3
AFMT320 - Lean Management (Six Sigma/5S)	3
AFMT330 - Airframe Manufacturing Producibility	3
AFMT340 - Theory of Low Observables	3
AFMT341 - Manufacturing Testing and Inspection	6
AFMT345 - Airframe Composite Manufacturing I	6
AFMT350 - Airframe Manufacturing Capstone I	2
AFMT442 - Foreign Object Elimination (FOE) and Migration Paths	3
AFMT446 - Airframe Composite Manufacturing II	6
AFMT451 - Airframe Manufacturing Capstone II	4
BIOL304 - A Survey of Emerging and Remerging Infectious Diseases	3
ELTE105 - Introduction to Robotics	3
ENGL315 - Applied Technical Writing	3
PSCI302 - Introduction to Quantitative Atmospheric Dynamics and Thermodynamics	3
PSY301 - Organizational Behavioral Psychology	3
<b>Required Course:</b> Choose One (3 units)	
ENGR140 - Engineering 3D Graphics	3
AM135B - 3D Solid Modeling I using Solidworks	3

**RECOMMENDED PATHWAY:** B.S. Airframe Manufacturing Technology  
The Recommended Plan of Study is determined by the discipline faculty.

### [LOWER DIVISION PLAN OF STUDY]

TERM 1		
AFAB SEQUENCE	AERO SEQUENCE	Units
AFAB 110	AERO 121	3-7.5
AFAB 130	AFAB 130	4
CSU GE AREA A1: COMM 101		3
CSU GE AREA A2: ENGL 101		3
CSU GE AREA D: POLS 101		3
<b>Total Units</b>		<b>16-20.5</b>

TERM 2		
AFAB SEQUENCE	AERO SEQUENCE	Units
AFAB 115 + AFAB 120	AERO 230	15
<b>Total Units</b>		<b>15</b>

SUMMER TERM 1		
Course	Units	
CSU GE AREA E: (see back for course options)	3	
CSU GE AREA D: PSY 101	3	
<b>Total Units</b>		<b>6</b>

TERM 3		
Course	Units	
AFAB 210	4	
CSU GE AREA B4: MATH 135	3	
CSU GE AREA B1: PHYS 101	4	
CSU GE AREA C1: (see back for course options)	6	
<b>Total Units</b>		<b>17</b>

TERM 4		
Course	Units	
CHEM 101	5	
ENGL 115	3	
HIST 107 OR 108 OR 110 OR 111	3	
<b>Total Units</b>		<b>11</b>

COUNSELING NOTE SECTION		
<b>AFMT B.S. application deadline:</b> June 21, 2024		
Current GPA eligibility: Students must have a 3.0 minimum GPA in all AFAB/AERO courses and a 3.0 minimum GPA in all college courses taken for credit (overall GPA)		
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: <a href="#">ACADEMIC POLICIES</a>		
<b>INFORMATION and RESOURCES</b>		
Tutoring Assistance	Career Center	AVC Student Health Services
Transfer Center	Office of Students with Disabilities	Palmdale Center
Basic Needs	Financial Aid	Counseling Division

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## [UPPER DIVISION RECOMMENDED PLAN OF STUDY]

**\*\*Formal admittance to B.S. program to enroll in the following courses\*\***

TERM 1	
Course	Units
CSU GE AREA B2:BIOL 304	3
CSU UPPER DIVISION GE: ENGL 315	3
CSU UPPER DIVISION GE: PSCI 302	3
CSU UPPER DIVISION GE: PSY 301	3
Total Units	12

TERM 2	
Course	Units
AFMT 310	3
AFMT 320	3
AFMT 330	3
ELTE 105	3
ENGR 140 OR AM 135B	3
Total Units	15

TERM 3	
Course	Units
AFMT 340	3
AFMT 341	6
AFMT 345	6
AFMT 350	2
Total Units	17

TERM 4	
Course	Units
AFMT 442	3
AFMT 446	6
AFMT 451	4
Total Units	13

\*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>.

23-24 CSU PLAN [CSU General Education Requirements]
<b>AREA C: ARTS AND HUMANITIES- 9 semester units (12 quarter units)</b> One course in each Subareas C1 and C2, and one additional course from either C1 or C2.
C1 Arts: ART 100, 101, 102, 103, 104, 106, 113, 132, 135, 137, 140, 145, 163, 170, 213; COMM 112, 114; DA 101; FTV 101, 107, 108, 201, 203, 251; HIST 115; MUS 101, 105, 111, 121, 126, 131, 132, 151, 153B, 160, 166, 185, 231, 251A, 251B; MUSC 102, 103, 107, 108, 142, 173, 220A, 273; PHTC 101, 150, 201; PHOT 107; THA 101, 102, 110, 130, 225
<b>AREA E: LIFELONG LEARNING &amp; SELF-DEVELOPMENT- 3 semester units (4 quarter units)</b> DD214 for 4 units** Basic Military Training notated on an official Military Transcript (e.g. CCAF, JST) may be substituted for the DD214
CFE 102; COMM 107; DA 108, 111; HE 101, 120; HD 101, 102, 105; NF 100, 103, 150; PSY 212, 236; SOC 111, 116, 120

## Application Process:

All students applying for enrollment in the AFMT program should follow these instructions. All required forms are available under the Program:

- Forms and Documents section
- Complete an Application for Enrollment form.
- Complete the AFMT Rubric - Student Questionnaire form.
- Attach official college transcripts for all post-secondary institutions attended, including Antelope Valley College. If you have Advance Placement (AP) credits, an official transcript must also be included. "Official" college transcripts must be submitted in a sealed envelope that has not been opened by the student.
  - One set of transcripts is to be turned in with your application and one set must also be on file with the AVC transcript office.
- Attach a copy of your updated Education Plan and Evaluation Form completed by one of the listed AVC Counselors or Advisors assigned to the AFMT program (see list below). Appointments should only be made with the assigned personnel listed below. Appointments can be made through email at [counseling@avc.edu](mailto:counseling@avc.edu) or by calling (661) 722-6300 ext. 6338. Request to meet with one of the following:
  - Monica Carreon
  - Rosa Fuller \*
  - Patty King \*
- Submit items 1 through 4 to the Career Technical Education division office, Enterprise Lab, Room 129. Items 1 through 4 are considered your "application packet". You may also mail your application packet to: Antelope Valley College, Attn: Rosie Heasley, 3041 W. Avenue K, Lancaster, CA 93536.

\*Approved to evaluate transcripts from other institutions

## Selection Procedure:

- Beginning summer dated TBD, student eligibility for admission to the program will be determined by multi-screening criteria. Applications will be ranked based on their scholastic eligibility. Scholastic eligibility is determined by the multi-screening criteria listed below under Program Forms and Documents - Application Rubric. Students are advised of eligibility to enroll in the AFMT program by electronic mail. Incomplete packets will not be considered. Students not admitted need to reapply the following year.

## Program Additional Notes:

Submission of an application for enrollment form does not guarantee a student's admission to the program.

Applications are accepted once a year during the designated application period only.

There is currently one track available - Junior Track (3rd & 4th Year - 2 years).

Classes are offered in the evenings, during the fall, spring, and summer terms.

Cohorts are admitted annually in the fall semester.

The program is limited to 18 students per year.

Part-time students must meet with the program's Lead Faculty to discuss progression as part-time students.