

# B.S.- Airframe Manufacturing Technology 25-26



## 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 Required in the major 121-125.5]

Program Prerequisites: Choose <b>AFAB</b> or <b>AERO</b> Sequence (18- 22.5)	
AFAB110 - Introduction to Aircraft Structures, Blueprints, and Manufacturing Documentation	3
AFAB115 - Aircraft Structures	8
AFAB120 - Composites Fabrication and Repair	7
OR	
AERO121 - Aircraft General II	7.5
AERO230 - Aircraft Airframe I	15

Program Prerequisites: Complete <b>All</b> the following (total 32 units)	
CHEM101 - Introductory Chemistry	5
COMMC1000/H - Introduction to Public Speaking	3
ENGLC1000/H - Academic Reading and Writing	3
ENGL115 - Introduction to Technical Communication	3
MATH135 - Plane Trigonometry	3
PHYS101 - Introductory Physics	4
PSYCC1000/H - Introduction to Psychology	3
AFAB130 - Aerospace Ethics and Issues	4
AFAB210 - Aircraft Production Systems	4

Required Courses: Complete <b>All</b> the following (total 68 units)	
POLSC1000 - American Government and Politics	3
AVC GE Area 3: Arts & Humanities	3
Any AVC GE Area 6: Ethnic Studies	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
MATH150 - Calculus and Analytic Geometry	5
Required Course: Choose <b>One</b> (3 units)	
ENGR140 - Engineering 3D Graphics	3
AM135B - 3D Solid Modeling I using Solidworks	3

## RECOMMENDED PATHWAY

### Airframe Manufacturing Technology Bachelors of Science

The Recommended Plan of Study is determined by the discipline faculty  
Take classes in **Summer** or **Intersession** if needed to complete your degree in a timely manner!

Fall/Spring: Max 19 units | Summer: Max 9 units | Intersession: Max 6 units

■ Major Courses ■ General Education

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

### SEMESTER 1

Course	Units
<span style="color: green;">●</span> BIOL 304	3
<span style="color: green;">●</span> ENGL 315	3
<span style="color: green;">●</span> PSCI 302	3
<span style="color: green;">●</span> PSY 301	3
<b>Total Units</b>	<b>12</b>

### SEMESTER 2

Course	Units
<span style="color: blue;">■</span> AFMT 310	3
<span style="color: blue;">■</span> AFMT 320	3
<span style="color: blue;">■</span> AFMT 330	3
<span style="color: blue;">■</span> ELTE 105	3
<span style="color: blue;">■</span> ENGR 140 OR AM 135B	3
<b>Total Units</b>	<b>15</b>

### SEMESTER 3

Course	Units
<span style="color: blue;">■</span> AFMT 340	3
<span style="color: blue;">■</span> AFMT 341	6
<span style="color: blue;">■</span> AFMT 345	6
<span style="color: blue;">■</span> AFMT 350	2
<b>Total Units</b>	<b>17</b>

### SEMESTER 4

Course	Units
<span style="color: blue;">■</span> AFMT 442	3
<span style="color: blue;">■</span> AFMT 446	6
<span style="color: blue;">■</span> AFMT 451	4
<b>Total Units</b>	<b>13</b>

## COUNSELING NOTE SECTION

**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)

Student eligibility for admission to the program will be determined by multi-screening criteria. Applications are accepted once a year during the designated application period only. Cohorts are admitted annually in the fall semester. Refer to announcements on the AVC website for updated enrollment information and important dates. The number of students enrolled into the program is limited to 18 students per year. Students are advised of eligibility to enroll in AFMT program by electronic mail. **Incomplete packets will not be considered**

**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)

### Application for Graduation:

Antelope Valley College awards degrees three times annually following the Fall, Spring, and summer semesters. Students must apply for graduation to earn their degree or certificate. **Applications are due by September 6 for spring/summer graduates and by February 14 for fall graduates.**

AVC 25-26 CATALOG: [ACADEMIC POLICIES](#)

### INFORMATION and RESOURCES

Tutoring Assistance  
Transfer Center

Career Center  
Office of Students with Disabilities

AVC Student Health Services  
Palmdale Center

Basic Needs

Financial Aid

Counseling Division

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## 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 (bottom of page).

1. Complete an Application for Enrollment form.
2. Complete the AFMT Rubric - Student Questionnaire form.
3. Attach official college transcripts for all post-secondary institutions attended, including Antelope Valley College. If you have Advanced Placement (AP) credits, an official AP Score Report must be on file with the AVC transcript office. "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.
4. Attach a copy of your updated Education Plan 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
  - Patty King \*
5. Submit items 1 through 4 to the Aerospace, Industrial Arts, & Applied Technologies division office, Enterprise Lab, Room 136. 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. An after-hours drop box is located outside of EL-136 for application submissions; however, late applications will not be considered for admission.

Students are notified of their acceptance/non-acceptance via email, to the applicant's AVC email account. Notices are sent approximately 4-5 weeks after the deadline has closed.

\*Approved to evaluate transcripts from other institutions.

## Selection Procedure:

Beginning summer 2024, 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.