

26-27 B.S. Airframe Manufacturing Technology (AFMT)

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. The Airframe Manufacturing Technology program will include courses in disciplines in which Antelope Valley College already offers degrees and certificates: Aircraft Fabrication and Assembly and Aviation Airframe. Entrance into the baccalaureate courses will require graduation from or substantial completion of one of those programs prior to admission to upper division courses. Note: All courses designated as an upper division major requirement must be completed with a minimum grade of "C" (or "P") for each course in the major. Visit the [Aerospace, Industrial Arts and Applied Technologies \(CTE\)](#) 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 122-126.5]

Program Prerequisites: Choose AFAB or AERO 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 All 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 All 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 One (3 units)	
ENGR140 - Engineering 3D Graphics	3
AM135B - 3D Solid Modeling I using Solidworks	3

RECOMMENDED PATHWAY

Airframe Manufacturing Technology BS

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

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

SUMMER 1	
Course	Units
MATH 150	5
Total Units	5

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

FALL 1	
Course	Units
BIOL 304	3
ENLG 315	3
PSCI 302	3
PSY 301	3
AVC GE AREA 6 : ETHNIC STUDIES	3
Total Units	15

SPRING 1	
Course	Units
AFMT 310	3
AFMT 320	3
AFMT330	3
ELTE105	3
CAD OPTIONS : AM 135B OR ENGR 140	3
Total Units	15

FALL 2	
Course	Units
AFMT340	3
AFMT341	6
AFMT345	6
AFMT350	2
Total Units	17

SPRING 2	
Course	Units
AFMT 442	3
AFMT 446	6
AFMT 451	4
Total Units	13
TOTAL UNITS	68

The State requires ALL STUDENTS to have a Comprehensive Education Plan. You MUST make a counseling appointment as soon as enrollment is established to receive your plan. Stop by the Counseling Center or call 661-722-6300 x 6338 to schedule an appointment.

Current Eligibility for the AFMT Program:

- Completion of the Aircraft Fabrication & Assembly Technician (AFAB) or Aeronautical and Aviation Technology (AERO) associate degree course sequence.
- Completion of the general education/lower-division prerequisites listed in the table below.
- A minimum GPA of 3.0 in all AFAB/AERO courses and 3.0 in all college courses taken for credit (overall GPA).

Eligibility for Declaring or Changing to AFMT Major

Students are not eligible to change their major to AFMT without first being formally admitted to the program. The application process and selection procedure are listed in the next section.

Any requests to declare or change a major to AFMT prior to program admission will not be granted. Once admitted, the division office will collect the required form from the student and submit it for processing.

Application Process:

Applicants seeking admission to the AFMT program must follow the instructions outlined below. All required forms are available under the [Program Forms and Documents](#) section at the bottom of the page.

Beginning with the upcoming 2026 application cycle, AFMT applications can be submitted online. Starting May 26, applicants should complete the online [Application for Enrollment](#) form. For online applications, follow the instructions on the online form. Hard-copy applications will continue to be accepted during the transition.

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 or by calling (661) 722-6300 ext. 6338. Request to meet with one of the following:
 - Monica Carreon
 - Rod Schilling *

*Approved to evaluate transcripts from other institutions.

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 admission status via their AVC student email. Notices are sent approximately 4-5 weeks after the deadline has closed.

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.

For additional and up to date information visit the AFMT website:

<https://www.avc.edu/program/afmt>

COUNSELING NOTE SECTION

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 26-27 CATALOG: [ACADEMIC POLICIES](#)

INFORMATION and RESOURCES

Tutoring Assistance	Career Center	AVC Student Health Services
Transfer Center	Office of Students with Disabilities	Palmdale Center
Basic Needs	Financial Aid	Counseling Division