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.

Students must receive a minimum grade of “C” or better in all required core courses and the specific courses listed as program electives in order to qualify for the degree or certificate.

### Major Required Courses

<table>
<thead>
<tr>
<th>Course/Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFAB 130, Aerospace Ethics and Issues (CSU GE Area C2)</td>
<td>4</td>
</tr>
<tr>
<td>AFAB 110, Introduction to Aircraft Structures, Blueprint and Manufacturing Documentation or AERO 121, Aircraft General II</td>
<td>3-7.5</td>
</tr>
<tr>
<td>AFAB 115, Aircraft Structures and AFAB 120, Composite Fabrication and Repair or AERO 230, Airframe I</td>
<td>15</td>
</tr>
<tr>
<td>AFAB 210, Aircraft Production Systems</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 101, Introductory Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>COMM 101, Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101, Academic Composition or ENGL 101SL, Academic Composition for ESL</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 115, Introduction to Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 101, Aircraft Structures and AFAB 120, Composite Fabrication and Repair or AERO 230, Airframe I</td>
<td>15</td>
</tr>
<tr>
<td>AFAB 210, Aircraft Production Systems</td>
<td>4</td>
</tr>
<tr>
<td>AFMT 301, Safety in Aviation</td>
<td>3</td>
</tr>
<tr>
<td>AFMT 320, Lean Management (Six Sigma &amp; 5S)</td>
<td>3</td>
</tr>
<tr>
<td>AFMT 330, Airframe Manufacturing Productivity</td>
<td>3</td>
</tr>
<tr>
<td>AFMT 340, Theory of Low Observables</td>
<td>3</td>
</tr>
<tr>
<td>AFMT 341, Manufacturing Testing &amp; Inspection</td>
<td>6</td>
</tr>
<tr>
<td>AFMT 345, Airframe Composite Manufacturing I</td>
<td>6</td>
</tr>
<tr>
<td>AFMT 350, Airframe Manufacturing Capstone I</td>
<td>2</td>
</tr>
<tr>
<td>AFMT 442, Foreign Object Elimination (FOE) and Migration Paths</td>
<td>3</td>
</tr>
<tr>
<td>AFMT 446, Airframe Composite Manufacturing II</td>
<td>6</td>
</tr>
<tr>
<td>AFMT 451, Airframe Manufacturing Capstone II</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 304, A Survey of Emerging and Re-emerging Infectious Diseases (CSU GE Area B2)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 101, Introductory Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>COMM 101, Introduction to Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 101, Academic Composition or ENGL 101SL, Academic Composition for ESL (CSU GE Area A2)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 115, Introduction to Technical Writing (CSU GE Area A3)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 315, Applied Technical Writing (Upper Division GE)</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 140, Engineering 3-D Graphics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 107, US History, 1607-1877 or HIST 108, US History, 1607-1877 or HIST 110, African American History, 1450-1877 or HIST 111, African American History, 1877-Present (CSU GE Area D)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 135, Plane Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 330, Introduction to Quantitative Atmospheric Dynamics and Thermodynamics (Upper Division GE)</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 101, Introductory Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 103, General Psychology (CSU GE Area B1)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 301, Organizational Behavioral Psychology (Upper Division GE)</td>
<td>3</td>
</tr>
<tr>
<td>PSY 101, General Psychology (CSU GE Area D)</td>
<td>3</td>
</tr>
<tr>
<td>CSU GE Area E</td>
<td>3</td>
</tr>
<tr>
<td>CSU GE Area C</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units: 122-128.5**

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**Enrollment Procedures:**

Refer to announcements on the AVC website for updated enrollment information. All items in the enrollment process are extremely important. Students who omit any part of the required information or miss the deadline will be dropped from consideration for the Airframe Manufacturing Technology Program. Only official documents will be accepted. Faxed documents are not official and are not accepted.

1. Submit the completed Application for Admission.
2. Enrollment packet by mail or walk-in by the deadline. **NOTE:** You are responsible for notifying the Career Technical Education Division office when you change your address or telephone number. Please call 661-722-6300, extension 6327, to do this.
3. Attach unofficial college transcripts (including Antelope Valley College) that show completion of the prerequisite courses. One set of college transcripts must also be on file in the Admissions and Records Office. **NOTE:** “Official” college transcripts must be submitted in sealed envelopes that have not been opened by the student.
4. Attach a copy of the Educational Planning and Evaluation Form completed by an AVC counselor. Call 661-722-6300, extension 638, to schedule an appointment with the appropriate BS degree counselor. Be sure you inform the information desk that you are requesting an appointment regarding the BS Degree. The form should be completed no more than one semester prior to submitting the application packet. All students must see an AVC counselor before they submit an admission packet. Counselors complete Educational Planning and Evaluation Forms by appointment only.
5. Submit the items listed in numbers 1 through 3 to the Career Technical Education Division office (TE7-129, Technology Building). Please call the division office at (661) 722-6300 ext. 6327 for drop off hours. Application packets may also be mailed.

**To contact the Technical Education Division, please call:** 661-722-6300 ext. 6327

**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.

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. Antelope Valley College’s website: [www.avc.edu](http://www.avc.edu)

For an educational plan, please consult with a counselor. To obtain counseling services please call: (661) 722-6338
Prerequisite Completion

If a course is listed as a prerequisite for another course, that prerequisite course must be completed with a satisfactory grade in order to enroll in the next course. According to Title 5, Section 55200(d), 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.

CHEM 101, INTRODUCTORY CHEMISTRY
Prerequisite: Completion of MATH 102 or higher.
Advisory: Eligibility for College Level Reading and ENGL 099.
(CSU, UC, AVC)

COMM 101 *INTRODUCTION TO PUBLIC SPEAKING
Advisory: Eligibility for ENGL 101/ENGL (CSU, UC, AVC)

ENGL 101 *ACADEMIC COMPOSITION
Prerequisite: Eligibility for ENGL 101/ENGL 101SL (AVC assessment) or Completion of ENGL 099, or Eligibility for ENGL 099 (AVC assessment) and Completion of ENGL 090, ELG 100A, ELG 100R, and ELG 100C.
Advisory: Eligibility for READ 099.
(CSU, UC, AVC)

ENGL 101SL *ACADEMIC COMPOSITION FOR ESL
Prerequisite: Completion of ESL 099.
(CSU, UC, AVC)

ENGL 115 INTRODUCTION TO TECHNICAL COMMUNICATION
Prerequisite: Completion of ENGL 101/ENGL 101SL.
(CSU, UC, AVC)

PSY 101 *GENERAL PSYCHOLOGY
Advisory: Eligibility for College Level Reading and ENGL 101/ENGL 101SL.
(CSU, UC, AVC)

PHYS 101 INTRODUCTORY PHYSICS
Advisory: Completion of MATH 135 or MATH 140, and Eligibility for College Level Reading and ENGL 101/ENGL101SL.
(CSU, UC, AVC)

MATH 135 *PLANE TRIGONOMETRY
Prerequisite: Eligibility for MATH 135 (AVC Assessment) or Completion of MATH 102.
Advisory: Concurrent enrollment in MATH 105, Eligibility of ENGL 101/ENGL 101SL and College Level Reading.
(CSU, UC, AVC)

AFAB 110 *INTRODUCTION TO AIRCRAFT STRUCTURES, BLUEPRINT AND MANUFACTURING DOCUMENTATION
Advisory: Eligibility for ENGL 099, READ 099 and MATH 070.
(AVC)

AFAB 115 *AIRCRAFT STRUCTURES
Prerequisite: Completion of MATH 105, Eligibility for ENGL 101/ENGL 101SL and College Level Reading.
(CSU, UC, AVC)

AFAB 120 *COMPOSITES FABRICATION AND REPAIR
Prerequisite: Completion of or concurrent enrollment in AFAB 110.
Advisory: Eligibility for ENGL 099, READ 099 and MATH 070.
(AVC)

AFAB 210 *AIRCRAFT PRODUCTION SYSTEMS
Prerequisite: Completion of AERO 230 or AFAB 115.
Advisory: Eligibility for College Level Reading, ENGL 101/ENGL 101SL and MATH 070.
(AVC)

AFAB 310 SAFETY IN AVIATION
Prerequisite: Completion of AFAB 130, AFAB 210, ENGL 315, and PSY 301.
(AVC)

AFMT 320 LEAN MANAGEMENT (SIX SIGMA & 55)
Prerequisite: Completion of AFAB 210, ENGL 315, and PSY 301.
Corequisite: Concurrent enrollment in AFMT 330.
(AVC)

AFMT 330 AIRFRAME MANUFACTURING PRODUCIBILITY
Prerequisite: Completion of AFAB 210, ENGL 315, and PSY 301.
(AVC)

AFMT 341 MANUFACTURING TESTING & INSPECTION
Prerequisite: Completion of AFMT 310.
(AVC)

AFMT 345 AIRFRAME COMPOSITE MANUFACTURING I
Prerequisite: Completion of MATH 120 and AFMT 310.
(AVC)

AFMT 350 AIRFRAME MANUFACTURING CAPSTONE I
Prerequisite: Completion of AFMT 310, AFMT 320, and AFMT 330.
(AVC)

AFMT 424 FOREIGN OBJECT ELIMINATION (FOE) AND MIGRATION PATHS
Prerequisite: Completion of AFMT 330.
(AVC)

AFMT 446 AIRFRAME COMPOSITE MANUFACTURING II
Prerequisite: Completion of AFMT 345.
(AVC)

AFMT 451 AIRFRAME MANUFACTURING CAPSTONE II
Prerequisite: Completion of AFMT 350.
(AVC)

Biol. 304 A SURVEY OF EMERGING AND REEMERGING INFECTIOUS DISEASES
Prerequisite: Completion of ENGL 101/ENGL 101SL.

ELTE 105 *INTRODUCTION TO ROBOTICS
Advisory: Eligibility for ENGL 099, READ 099 and MATH 070.
(AVC)

ENG 315 APPLIED TECHNICAL WRITING
Prerequisite: Completion of ENGL 115.
(AVC)

ENGR 140 ENGINEERING 3D GRAPHICS
Prerequisite: Completion of MATH 135 (AVC Assessment).

HIST 107 U.S. HISTORY, 1607 – 1877
Advisory: Eligibility for College Level Reading and ENGL 101/ENGL 101SL.
(CSU, UC, AVC)

HIST 108 U.S. HISTORY FROM 1865
Advisory: Eligibility for College Level Reading and ENGL 101/ENGL 101SL.
(CSU, UC, AVC)

PSY 301 ORGANIZATIONAL BEHAVIORAL PSYCHOLOGY
Prerequisite: Completion of PSY 101.
(AVC)

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 prerequisite.