



ABOUT THIS MAJOR

The certificate program includes coursework to help prepare students for CAD and CAM use in industry. Students who complete this program will have the necessary skill set to be employed by industry and in a variety of positions. Current

engineers will find the program helpful for advanced skill building. Technicians will use this program to strengthen their skill set and technical communications skills. For more information, visit the [Career and Technical Education](#) division.

TO EARN A Certificate A STUDENT MUST COMPLETE THE FOLLOWING:

- [1] Completion of Major Courses
- [2] Minimum grade point average of 2.0
- [3] A "C" or better in all courses required for the major

Cert.- Computer Aided Drafting and Manufacturing (CADM)

[Total Units Required for the Major 24]

Require Course: Complete all the following: (24 UNITS)	
AM100 - Geometric Dimensioning and Tolerancing (GD&T)	3
AM105 - Introduction to 2D CAD	3
AM135A - 3D Solid Modeling I using CATIA/3DEXperience	3
AM135B - 3D Solid Modeling I using Solidworks	3
AM235A - 3D Solid Modeling II using CATIA/3DEXperience	3
Prerequisite: Completion of AM 135A.	
AM235B - 3D Solid Modeling II using Solidworks	3
Prerequisite: Completion of AM 135B or Completion of ENGR 140	
AM245 - Introduction to CAM II	3
Prerequisite: Completion of AM 145	
AM145 - Introduction to CAM I	3

RECOMMENDED PATHWAY

Computer Aided Drafting and Manufacturing

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

SEMESTER 1	
Course	Units
AM 100	3
AM 105	3
Total Units	6

SEMESTER 2	
Course	Units
AM 135A	3
AM 135B	3
Total Units	6

SEMESTER 3	
Course	Units
AM 235A	3
AM 235B	3
Total Units	6

SEMESTER 4 (SPRING -2)	
Course	Units
AM 245	3
AM 145	3
Total Units	6
TOTAL DEGREE UNITS	24

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