



Computer Aided Drafting and Manufacturing Certificate 21-22

Recommended Program Sequence

Term 1 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units	Term 2 (Fall/Spring: Max. 19 units, 12-15 u. recommended)		Units
AM 100, Geometric Dimensioning and Tolerancing (GD&T)		3	AM 235A 3D, Solid Modeling II using CATIA/3D Experience, or AM 235B 3D, Solid Modeling II using Solidworks		3
AM 105, Introduction to 2D CAD		3	AM 245, Introduction to CAM II		3
AM 135A 3D, Solid Modeling I using CATIA/3D Experience, or AM 135B 3D, Solid Modeling I using Solidworks		3			
AM 145, Introduction to CAM I		3			
Courses not published in 2-year schedule			Courses not published in 2-year schedule		
Total		12	Total		6
			Graduate		

Take Summer classes if needed to complete the program in a timely manner.

The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call.

Computer Aided Drafting & Manufacturing	Units
AM 100, Geometric Dimensioning and Tolerancing (GD&T)	3
AM 105, Introduction to 2D CAD	3
AM 135A 3D, Solid Modeling I using CATIA/3D Experience, or AM 135B 3D, Solid Modeling I using Solidworks	3
AM 145, Introduction to CAM I	3
AM 235A 3D, Solid Modeling II using CATIA/3D Experience, or AM 235B 3D, Solid Modeling II using Solidworks	3
AM 245, Introduction to CAM II	3
Total:	18

Other Requirements:

- Minimum grade of "C" required on each course
- Refer to catalog or online website for course listings and descriptions

Program Learning Outcomes

1. Develop a solid model from concept to physical object through the use of CAD and CAM tools.

• **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>

Requirements for Two or More Associate Degrees: To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

Transfer: Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: www.assist.org

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.

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 corequisite.