



# Fresno City College

COMPUTER AIDED  
MANUFACTURING  
2021-2022

Name: \_\_\_\_\_

ID: \_\_\_\_\_

Date: \_\_\_\_\_

Counselor Contact: \_\_\_\_\_

**Major Requirements: 28 units**

**A grade of “C” or better is required in the following courses**

ASSOCIATE IN SCIENCE (F.8271.AS)	C-ID	Units	Completed	In Progress	Planned
AT 10, Technical Computer Applications		3			
AT 40, Preparing for Employment Opportunities		3			
AT 140, Introduction to Machine Shop		3			
CAM 5, CNC Operations & Maintenance for Machinist		2.5			
CAM 10, CNC Mill Programming & Operation 1		4			
CAM 15, CNC Programming for Machinist		2.5			
CAM 20, CNC Mill Programming & Operation 2		4			
CAM 26, Lathe Programming and Operation 2		3			
CAM 31, Multi-Axis Milling & Programming		3			

**Notes:**

1. The CAM program is designed for students who have a strong interest in hands-on experience both in the classroom as well as in the industry. Core courses ensure students with a knowledgeable foundation to operate and setup computer numerical control machines using our Computer Aided Manufacturing laboratory. Master CAM software is the designing software used to generate G and M codes for product prototyping. The CAM program prepares students for an entry level job as a CNC operator or CNC programmer. The software and machines give students the most experience possible, and helps develop skills for our local manufacturing workforce. A comprehensive set of undergraduate courses are offered for students interested in working towards the completion of proficiency awards, such as, Associate in Science degree in CNC Operation and CAD/CAM programming.
2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
3. The *Associate Degree* requires the completion of the major (28 units) with a “C” grade or better grade in each course. Students must complete one of the three different general education patterns: option 1 – Fresno City College General Education, option 2 – CSU GE Breadth– California State University General Education, OR option 3 – IGETC – Intersegmental General Education Transfer Curriculum for a total of **60 semester units minimum** with a 2.0 or better GPA.