



# Fresno City College

CAM  
COMPUTER AIDED  
MANUFACTURING  
2018-2019

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

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

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

Advisor Contact: \_\_\_\_\_

**Major Requirements: 39-41 units**

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

CERTIFICATE OF ACHIEVEMENT (F.8271.CA)	C-ID	Units	Completed	In Progress	Planned
AT 10, Technical Computer Applications		3			
AT 21, Occupational Safety and Health		2			
AT 40, Preparing for Employment Opportunities		3			
AT 130, Industrial Mathematics <b>OR</b> MATH 201 Elementary Algebra ( <b>or higher level</b> )		3-5			
CADD 16, 3D Solid Modeling 1		3			
CAM 10, CNC Mill Programming & Operation 1		6.5			
CAM 15, Computer Aided Machining for CAD Users		3			
CAM 20, CNC Mill Programming & Operation 2		6.5			
CAM 25, CNC Operation and Setup for CAD Users		3			
CAM 26, Lathe Operation and Programming 2		3			
DRAFT 12, Drafting Practices		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 help 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 *Certificate of Achievement* requires completion of the major (39-41 units) with a "C" or better grade in each course.