

# GUIDED PATHWAY: ADVANCED MANUFACTURING COMPUTER NUMERICAL CONTROL/COMPUTER-AIDED MANUFACTURING

MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH



For more information, visit the [Dallas College Mechatronics webpage](http://www.dcccd.edu/Mechatronics) [www.dcccd.edu/Mechatronics] and your academic advisor at the Richland Campus.

This is an example course sequence for students interested in pursuing an Engineering Technology Skills Achievement Award. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn a Skills Achievement Award in Advanced Manufacturing Computer Numerical Control/Computer-Aided Manufacturing. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. See catalog for [official certificate requirements](#).

The Advanced Manufacturing Computer Numerical Control/Computer-Aided Manufacturing Skills Achievement Award in Engineering Technology has been developed to provide additional experiences using CNC and CAM machines and for manufacturing specialists who require ongoing training necessary for the integration of CNC and the CAM machines.

Students pursuing this certificate are waived from the [Texas Success Initiative \(TSI\)](#) standards, but must meet course prerequisites.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Skills Achievement Award	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
<a href="#">TSI</a>	May be Exempt	

## SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for [official certificate requirements](#).

### CERTIFICATE MINIMUM: 10 SEMESTER CREDIT HOURS

#### SEMESTER 1

Total Hours: 6

[MCHN 1326](#) – Introduction to Computer-Aided Manufacturing (CAM)  
[MCHN 2331](#) – Operation of CNC Turning Centers

#### SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm academic and career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing.

#### SEMESTER 2

Total Hours: 4

[MCHN 2435](#) – Advanced CNC Machining

#### SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career path and program of study.
2. Meet with your advisor to apply for the Engineering Technology– Advanced Manufacturing Computer Numerical Control/Computer-Aided Manufacturing Skills Achievement Award.

**PATHWAY TOTAL: 10 SEMESTER CREDIT HOURS**