

GUIDED PATHWAY: ELECTRICAL ENGINEERING TECHNOLOGY A.A.S.

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 your campus.

This is an example course sequence for students interested in pursuing Electrical Engineering Technology. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Applied Science (A.A.S.) degree in Electrical Engineering Technology. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Dallas College. See catalog for [official degree requirements](#).

This program is designed specifically to provide the student with skills to perform technical duties associated with the installation, repair, maintenance and calibration of equipment used for the manufacturing and testing of semiconductor products. Students will gain skills in electronics and electrical engineering practices related to the semiconductor manufacturing industry. Courses that complete the degree are noted below.

Visit the [NTCCC Transfer Consortium](#) to view guided pathways created for students who complete an A.A.S. degree and the options for transfer to complete a Bachelor of Applied Arts and Science. Speak with an academic advisor at your campus to choose courses that will help you to transfer to a specific university.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Associate of Applied Science	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
<u>TSI</u>	Must be Complete	

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 degree requirements](#).

AAS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS

SEMESTER 1 Total Hours: 14

[CETT 1403](#) – DC Circuits
[HYDR 1445](#) – Hydraulics and Pneumatics
[SPCH 1311](#) – Introduction to Speech Communication *This is a Core course.*
[MATH 1314](#) – College Algebra *This is a Core course. You must earn a grade of "C" or better.*

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: 15

[CETT 1405](#) – AC Circuits
[INTC 1457](#) – AC/DC Motor Control
[CETT 1425](#) – Digital Fundamentals
[MATH 1316](#) – Plane Trigonometry

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.

SEMESTER 3 Total Hours: 15

[ENGL 1301](#) – Composition I *This is a Core course. You must earn a grade of "C" or better.*

[CETT 1429](#) – Solid State Devices
[INMT 1417](#) – Industrial Automation
[PHYS 1401](#) – College Physics I *This is a Core course.*

SEMESTER 3 ACTION ITEMS

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. Meet with a faculty or career advisor regarding placement for the Cooperative course, if needed.

SEMESTER 4

Total Hours: 16

[CETT 1457](#) – Linear Integrated Circuits
[CHEM 1411](#) – General Chemistry I *This is a Core course.*
[SOCIAL/BEHAVIORAL SCIENCES ELECTIVE*](#) *This is a Core course.*
[HUMANITIES/FINE ARTS ELECTIVE*](#) *This is a Core course.*
CHOOSE ONE: [MCHN 1200](#) – Beginning Machine Shop **OR**
[ENTC 1280](#) – Cooperative Education-Engineering Technology, General

* There are several options to fulfill this requirement. See your academic advisor for a specific list.

SEMESTER 4 ACTION ITEMS

1. Meet with your advisor to apply for the Electrical Engineering Technology A.A.S.
2. Sign up for Commencement.
3. Join the [Alumni Network!](#)

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS