GUIDED PATHWAY: ELECTRONICS TECHNOLOGY A.A.S.

MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH

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

This is an example course sequence for students interested in pursuing the Engineering Technology - Electronics Technology associate degree. 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 Electronics 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 involves the study of the theory and operation of electronic devices, including their application in analog circuits, digital circuits, industrial controls and electromechanical systems. We stress electronic principles and hands-on experience that can be applied to many aspects of advanced electronics. Courses that complete the degree and the Electronics Technology Certificate (C) 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	
TSI	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: 13

DFTG 1309 – Basic Computer-Aided Drafting *(Course also applies to C)*
MCHN 1300 – Beginning Machine Shop *(Course also applies to C)*
CETT 1403 – DC Circuits *(Course also applies to C)*
CHOOSE ONE: **TECM 1341** – Technical Algebra *You must earn a grade of "C" or better.* **OR**
       MATH 1314 – College Algebra *This is a Core course. You must earn a grade of "C" or better.*
       (Either course also applies to C)

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: 17

ENGL 1301 – Composition I *This is a Core course. You must earn a grade of "C" or better.*
INTC 1307 – Instrumentation Test Equipment *(Course also applies to C)*
CETT 1405 – AC Circuits *(Course also applies to C)*
CETT 1425 – Digital Fundamentals *(Course also applies to C)*
CHOOSE ONE: **TECM 1317** – Technical Trigonometry *You must earn a grade of "C" or better.* **OR**
       MATH 1316 – Plane Trigonometry *This is a Core course. You must earn a grade of "C" or better.*
       (Either course applies to C)

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: 18

CETT 1429 – Solid State Devices *(Course also applies to C)*
HYDR 1345 – Hydraulics and Pneumatics
CHOOSE ONE: **INMT 1417** – Industrial Automation *(Course also applies to C)* **OR**
                 COSC 1436 – Programming Fundamentals I *(Course also applies to C)*
CHOOSE ONE: **PHYS 1401** – College Physics I *This is a Core course.* **OR**
                 PHYS 1405 – Elementary Physics I *This is a Core course.*
CHOOSE ONE: **SPCH 1311** – Introduction to Speech Communication *This is a Core course.* **OR**
                 SPCH 1315 – Public Speaking *This is a Core course.*
                 (Either course applies to C)

1. **NOTE:** Both INMT 1417 and COSC 1436 are needed for the Electronics Technology Certificate. 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.
3. Meet with your advisor to apply for the Electronics Technology Certificate.

SEMESTER 4   Total Hours: 12

TECM 1349 – Technical Math Applications *You must earn a grade of "C" or better.*
SOCIAL/BEHAVIORAL SCIENCES **ELECTIVE** * *This is a Core course.*
HUMANITIES/FINE ARTS **ELECTIVE** * *This is a Core course.*
CHOOSE ONE: **CETT 1357** – Linear Integrated Circuits
                 CETT 2337 – Microcomputer Control **OR**
                 ENTC 2380 – Cooperative Education–Engineering Technology, General

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

1. Meet with your advisor to apply for the Electronics Technology A.A.S.
2. Sign up for Commencement.
3. Join the Alumni Network!

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS