GUIDED PATHWAY: COMPUTER/ ELECTRICAL ENGINEERING (UNT/RLC) [COMPUTER ENGINEERING REQUIRED COURSES]

ENGINEERING, TECHNOLOGY, MATHEMATICS and SCIENCES CAREER PATH

For more information, visit the Dallas College Engineering webpage [www.dcccd.edu/engineering] and your academic advisor at your campus.

The Computer/Electrical Engineering pathway prepares you to enter a bachelor's degree program in Computer Engineering or Electrical Engineering at the University of North Texas (UNT). You may need to complete additional courses, beyond those listed in this pathway, to be accepted into the Computer Engineering or Electrical Engineering program at UNT. Speak with your academic advisor for more information and a list of additional courses. Selected courses on this pathway are based on completing the Computer Engineering Required Courses for the Computer Engineering program at UNT. *[There is a Electrical Engineering track for this pathway.]*

This is an example course sequence for students interested in pursuing Computer/Electrical Engineering. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an Associate of Science degree, which will increase your chances of transfer to Computer Engineering or Electrical Engineering at UNT. Students who transfer to UNT will **not** be core complete if he/she completes this degree. This degree **does not** include all core course requirements. Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Dallas College. Courses that complete the degree are noted below. See catalog for official degree requirements.

Visit www.dcccd.edu/transfer and select "Transfer from Dallas College," then click on UNT to view more information about transferring to that institution. Speak with your academic advisor to choose courses that will help you pursue Teaching as a major at UNT.

Catalog Year	2020-2021 You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Associate of 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 program of study. See catalog for official degree requirements.

DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS

PATHWAY REQUIREMENTS — Total Hours: 10

The following are prerequisite courses for MATH 2413.
MATH 1314
MATH 1316
MATH 2412

CONSIDER COMPLETING BEFORE TRANSFER

CHEM 1412
MATH 2305

SEMESTER 1 — Total Hours: 13

ENGL 1301 – Composition I *This is a Core course. Must earn a grade of "C" or higher.*
HIST 1301 – United States History I *This is a Core course.*

MATH 2413 – Calculus I *This is a Core course. Must earn a grade of "C" or higher. Prerequisites of MATH 1314, MATH 1316, MATH 2412, prior to enrolling in the course.*
ECON 2301 – Principles of Macroeconomics *This is a Core course.*

SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm your academic and career goals by the end of the semester.
2. Meet with a career advisor/coach to research your career options with a Computer Engineering degree.

SEMESTER 2 — Total Hours: 14

ENGL 1302 – Composition II *This is a Core course.*
MATH 2414 – Calculus II
COSC 1436 – Programming Fundamentals I
CHOOSE ONE: **HIST 1302** – United States History II* *This is a Core course.* ***OR***
HIST 2301 – Texas History* *This is a Core course.*

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

SEMESTER 2 ACTION ITEMS

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career pathway and program of study.
2. Inquire about the process of transferring to UNT.

SEMESTER 3 — Total Hours: 3

GOVT 2305 – Federal Government *This is a Core course.*

SEMESTER 3 ACTION ITEMS

1. Begin applying to UNT.

SEMESTER 4 — Total Hours: 15

ENGR 2306 – Introduction to Digital Systems
ENGR 2106 – Introduction to Digital Systems Laboratory
COSC 1437 – Programming Fundamentals II
PHYS 2425 – University Physics I *This is a Core course.*
ENGR 2300 – Applied Linear Algebra

SEMESTER 4 ACTION ITEMS

1. Begin applying for Financial Aid and Scholarships. You can start the FAFSA in October for the next academic year. *(i.e., in October 2021, you can complete the FAFSA if you plan to register for classes at a university Fall 2022)*
2. Check with your advisor for important deadlines and dates.

SEMESTER 5 — Total Hours: 15

GOVT 2306 – Texas Government *This is a Core course.*
CHEM 1411 – General Chemistry I
PHYS 2426 – University Physics II *This is a Core course.*
COSC 2436 – Programming Fundamentals III

SEMESTER 5 ACTION ITEMS

1. After reviewing your degree plan and program of study, meet with your advisor to apply for the Associate of Science degree in Computer/Electrical Engineering.
2. Sign up for commencement.
3. Request final transcripts to be sent to UNT.
4. Join the Alumni Network!

PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS