

**STEM**

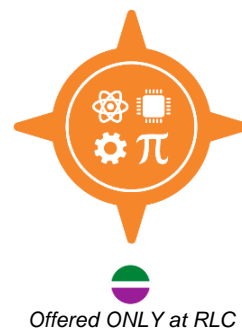
**GUIDED PATHWAY: COMPUTER/ELECTRICAL ENGINEERING (UNT/RLC)  
[COMPUTER ENGINEERING REQUIRED COURSES]**

For more information, visit [www.dcccd.edu/engineering](http://www.dcccd.edu/engineering) and your academic advisor at your college.

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) <sup>ii</sup>. **This pathway focuses on required courses for the Computer Engineering program at UNT.**

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 AS degree <sup>iii</sup>, which will increase your chances of transfer to Computer Engineering or Electrical Engineering at UNT <sup>ii</sup>. 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. Courses that complete the Degree (D) are noted below. For official degree requirements, [click here](#).

Visit [www.dcccd.edu/TransferServices](http://www.dcccd.edu/TransferServices) to view information about transfer to UNT. Visit with your academic advisor to ensure the courses below will help you transfer to the Computer or Electrical Engineering program at UNT.



**COLLEGE READINESS REQUIREMENTS**

*Enrolling in one or more courses may be necessary if assessment activities and previous academic experiences indicate a need for additional knowledge and skills:*

READING & WRITING PLACEMENT	MATH PLACEMENT	ENGLISH LANGUAGE PROFICIENCY
TSI READING MET: <input type="checkbox"/> YES <input type="checkbox"/> NO TSI WRITING MET: <input type="checkbox"/> YES <input type="checkbox"/> NO	TSI MATH MET: <input type="checkbox"/> YES <input type="checkbox"/> NO	ENGLISH PROFICIENCY: <input type="checkbox"/> YES <input type="checkbox"/> NO
<i>IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED</i>		
<input type="checkbox"/> DREA / DWRI / DIRW <i>(CIRCLE ONE)</i>	<input type="checkbox"/> DMAT _____	<input type="checkbox"/> ESOL _____
<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____

**PROGRAM SPECIFIC REQUIREMENTS <sup>iv</sup>**

- MATH 1314 <sup>iv</sup>
  - MATH 1316 <sup>iv</sup>
  - MATH 2412 <sup>iv</sup>
- <sup>iv</sup> These courses are prerequisites to MATH 2413.
- Consider Completing Before Transfer:**
- CHEM 1412
  - MATH 2305

*Exemptions/waivers may exist. Speak with an academic advisor regarding placement in college readiness courses and your ability to enroll in core academic coursework.*

**SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS <sup>v</sup>  
ALL MAPS CAN BE MODIFIED TO FIT THE NEEDS OF PART-TIME STUDENTS**

D	SEMESTER 1	ACTION ITEMS
♦	ENGL 1301 – Composition I <sup>vi</sup> <i>(core course)</i>	<input type="checkbox"/> Meet with your advisor to confirm your academic and career goals by the end of the semester. <input type="checkbox"/> Meet with a career advisor/coach to research your career options with a Computer/Electrical Engineering degree.
♦	HIST 1301 – United States History I <i>(core course)</i>	
♦	MATH 2413 – Calculus I <sup>iv vi</sup> <i>(core course)</i>	
♦	ECON 2301 – Principles of Macroeconomics <i>(core course)</i>	

**TOTAL SEMESTER CREDIT HOURS: 13**

D	SEMESTER 2	ACTION ITEMS
♦	ENGL 1302 – Composition II <i>(core course)</i>	<input type="checkbox"/> Meet with your advisor to request an official program of study audit, confirm or update your academic/career pathway and program of study. <input type="checkbox"/> Inquire about the process of transferring to UNT.
♦	HIST 1302 – United States History II <sup>vii</sup> <i>(core course)</i> <b>OR</b>	
♦	HIST 2301 – Texas History <sup>vii</sup> <i>(core course)</i>	
♦	MATH 2414 – Calculus II	
♦	COSC 1436 – Programming Fundamentals I <sup>viii</sup>	

**TOTAL SEMESTER CREDIT HOURS: 14**

D	SEMESTER 3	ACTION ITEMS
♦	GOVT 2305 – Federal Government <i>(core course)</i>	<input type="checkbox"/> Begin applying to UNT.

**TOTAL SEMESTER CREDIT HOURS: 3**

D	SEMESTER 4	ACTION ITEMS
♦	ENGR 2306 – Introduction to Digital Systems and Lab.	<input type="checkbox"/> Begin applying for Financial Aid and Scholarships <ul style="list-style-type: none"> <li>o You can start the FAFSA in October for the next academic year (<i>i.e., in October 2020 you can complete the FAFSA if you plan to register for classes at a university Fall 2021</i>).</li> </ul> <input type="checkbox"/> Check with your advisor for important deadlines and dates.
♦	ENGR 2106 – Introduction to Digital Systems Laboratory <sup>viii</sup>	
♦	COSC 1437 – Programming Fundamentals II <sup>viii</sup>	
♦	PHYS 2425 – University Physics I <i>(core course)</i>	
♦	ENGR 2300 – Applied Linear Algebra	

**TOTAL SEMESTER CREDIT HOURS: 15**

D	SEMESTER 5	ACTION ITEMS
♦	GOVT 2306 – Texas Government <i>(core course)</i>	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. <ul style="list-style-type: none"> <li>o Meet with your advisor to apply for the Associate of Science degree in Computer/Electrical Engineering.</li> <li>o Sign up for commencement.</li> </ul> <input type="checkbox"/> Request final transcripts to be sent to UNT. <input type="checkbox"/> Join the <a href="#">Alumni Network!</a>
♦	PHYS 2426 – University Physics II <i>(core course)</i>	
♦	CHEM 1411 – General Chemistry I	
♦	COSC 2436 – Programming Fundamentals III <sup>viii</sup>	

**TOTAL SEMESTER CREDIT HOURS: 15**

**AS DEGREE MINIMUM: 60 SEMESTER CREDIT HOURS | PATHWAY TOTAL: 60 SEMESTER CREDIT HOURS**

[There is an Electrical Engineering track for this pathway]

<sup>i</sup> Degree plans may change in later catalogs. You may use this pathway if you entered one of the seven colleges on or before this date.

<sup>ii</sup> 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.

<sup>iii</sup> Students must earn at least 25% of the credit hours (15 hours) required for graduation through instruction by Richland College.

<sup>iv</sup> To register for MATH 2413, you must have completed the prerequisite math courses as follows: MATH 1314, MATH 1316, MATH 2412

<sup>v</sup> This is not an official degree plan. For official degree requirements, [click here](#).

<sup>vi</sup> You must earn a grade of "C" or better in English 1301 and the selected college-level mathematics course and receive a GPA of at least 2.50 on all college-level course work.

<sup>vii</sup> There are several options to fulfill this requirement. See your academic advisor for a specific list.

<sup>viii</sup> Selected courses based on completing the Computer Engineering Required Courses



**Dallas County  
Community College District**