

STEM

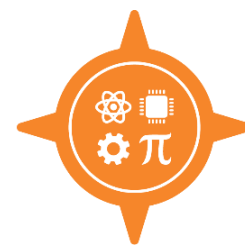
GUIDED PATHWAY: MECHANICAL ENGINEERING (UTD/RLC)

For more information, visit www.dcccd.edu/engineering and your academic advisor at Richland college.

The Mechanical Engineering pathway prepares you to enter a bachelor's degree program in Mechanical Engineering at the University of Texas at Dallas (UT Dallas) ⁱⁱ.

This is an example course sequence for students interested in pursuing Mechanical Engineering. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn an AS degree ⁱⁱⁱ, which will increase your chances of transfer to Mechanical Engineering at UT Dallas ⁱⁱ. Students who transfer to UT Dallas 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 to view information about transfer to UT Dallas. Visit with your academic advisor to choose courses that will help you to transfer to a specific university.



Offered ONLY at RLC

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
IF TSI OR ENGLISH LANGUAGE PROFICIENCY NOT MET, INSERT COURSE(S) NEEDED		

<input type="checkbox"/> DREA / DWRI / DIRW (CIRCLE ONE) _____	<input type="checkbox"/> DMAT _____	<input type="checkbox"/> ESOL _____
<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____	<input type="checkbox"/> OTHER: _____

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

PROGRAM SPECIFIC REQUIREMENTS ^{iv}

- MATH 1314 ^{iv}
 - MATH 1316 ^{iv}
 - MATH 2412 ^{iv}
- ^{iv} These are pre-reqs to MATH 2413.

Consider completing prior to transfer:

- CHEM 1411
- ENGR 1201
- ENGR 2105

SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS ^v
ALL MAPS CAN BE MODIFIED TO FIT THE NEEDS OF PART-TIME STUDENTS

D	SEMESTER 1	ACTION ITEMS
♦	ENGL 1301 – Composition I ^{vi} (core course)	<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 Mechanical Engineering degree.
♦	HIST 1301 – United States History I (core course)	
♦	ENGR 2304 – Programming for Engineers	
♦	MATH 2413 – Calculus I ^{iv vi} (core course)	

TOTAL SEMESTER CREDIT HOURS: 13

D	SEMESTER 2	ACTION ITEMS
♦	ENGL 1302 – Composition II (core course)	<input type="checkbox"/> Meet with your advisor to confirm or update your academic/career pathway and program of study. ○ Inquire about the process of transferring to UT Dallas.
♦	HIST 1302 – United States History II ^{vii} (core course)	
♦	PHYS 2425 – University Physics I (core course)	
♦	MATH 2414 – Calculus II	

TOTAL SEMESTER CREDIT HOURS: 14

D	SEMESTER 3	ACTION ITEMS
♦	PHYS 2426 – University Physics II (core course)	<input type="checkbox"/> Begin applying to UT Dallas.
♦	GOVT 2305 – Federal Government (core course)	

TOTAL SEMESTER CREDIT HOURS: 7

D	SEMESTER 4	ACTION ITEMS
♦	GOVT 2306 – Texas Government (core course)	<input type="checkbox"/> Begin applying for Financial Aid and Scholarships ○ You can start the FAFSA in October for the next academic year (i.e., in October 2020 you can complete the FAFSA if you plan to register for classes at a university Fall 2021). <input type="checkbox"/> Check with your advisor for important deadlines and dates.
♦	MATH 2415 – Calculus III	
♦	ENGR 2301 – Engineering Mechanics – Statics ^{viii}	
♦	ENGR 2300 – Applied Linear Algebra	

TOTAL SEMESTER CREDIT HOURS: 13

D	SEMESTER 5	ACTION ITEMS
♦	ENGR 2302 – Engineering Mechanics – Dynamics	<input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. ○ Meet with your advisor to apply for the AS degree in Mechanical Engineering. ○ Sign up for commencement. <input type="checkbox"/> Request final transcripts to be sent to UT Dallas. <input type="checkbox"/> Join the Alumni Network!
♦	ENGR 2332 – Mechanics of Material	
♦	ENGR 2305 – Electrical Circuits I	
♦	MATH 2420 – Differential Equations	

TOTAL SEMESTER CREDIT HOURS: 13

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

ⁱ 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.

ⁱⁱ You may need to complete additional courses, beyond those listed in this pathway, to be accepted into the Mechanical Engineering program at UTD. Speak with your academic advisor for more information and a list of additional courses.

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

^{iv} To register for MATH 2413, you must have completed the prerequisite math courses as follows: MATH 1314, MATH 1316, MATH 2412

^v This is not an official degree plan. For official degree requirements, [click here](#).

^{vi} 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.

^{vii} There are several options to fulfill this requirement. See your academic advisor for a specific list.

^{viii} To register for ENGR 2301, you must have completed PHYS 2425 and be concurrently enrolled in MATH 2414

THIS PATHWAY WAS LAST UPDATED MARCH 5, 2019