

STEM

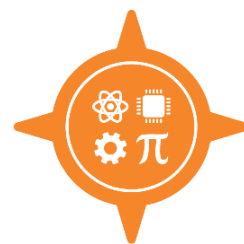
GUIDED PATHWAY: ELECTRICAL ENGINEERING (RLC/PVAMU)

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

This guided pathway in Electrical Engineering outlines the "articulated" degree offered at Richland College with Prairie View A&M University (PVAMU). This pathway prepares you to enter a bachelor's degree program in Electrical Engineering at PVAMU ⁱⁱ.

This is an example course sequence for students interested in pursuing Electrical 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 Electrical Engineering at PVAMU. Students who transfer to PVAMU 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 the Top 15 colleges and universities to which students at the colleges of DCCCD transfer. 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: YES NO
TSI WRITING MET: YES NO

TSI MATH MET: YES NO

ENGLISH PROFICIENCY: YES NO

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

DREA / DWRI / DIRW (CIRCLE ONE)

DMAT _____

ESOL _____

OTHER: _____

OTHER: _____

OTHER: _____

PROGRAM SPECIFIC REQUIREMENTS ^{iv}

- MATH 1314 ^{iv}
 - MATH 1316 ^{iv}
 - MATH 2412 ^{iv}
- ^{iv} These courses are prerequisites to MATH 2413.

Consider completing prior to transfer:

- CHEM 1412
- MATH 2420

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 ^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 an Electrical Engineering degree. |
| ◆ | HIST 1301 – United States History I (core course) | |
| ◆ | ENGR 1201 – Introduction to Engineering | |
| ◆ | MATH 2413 – Calculus I ^{iv vi} (core course) | |

TOTAL SEMESTER CREDIT HOURS: 12

| D | SEMESTER 2 | ACTION ITEMS |
|---|---|--|
| ◆ | ENGL 1302 – Composition II (core course) | <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. <ul style="list-style-type: none"> ○ Inquire about the process of transferring to PVAMU. ○ Ask about any prerequisites that may be needed for engineering courses. |
| ◆ | HIST 1302 – United States History II ^{vii} (core course) | |
| ◆ | PHYS 2425 – University Physics I (core course) | |
| ◆ | ENGR 2304 – Programming for Engineers | |

TOTAL SEMESTER CREDIT HOURS: 13

| D | SEMESTER 3 | ACTION ITEMS |
|---|---|--|
| ◆ | MATH 2414 – Calculus II | <input type="checkbox"/> Apply to PVAMU. |
| ◆ | ENGR 2301 – Engineering Mechanics – Statics ^{viii} | |

TOTAL SEMESTER CREDIT HOURS: 7

| D | SEMESTER 4 | ACTION ITEMS |
|---|---|---|
| ◆ | PHYS 2426 – University Physics II (core course) | <input type="checkbox"/> Begin applying for Financial Aid and Scholarships <ul style="list-style-type: none"> ○ You can start the FAFSA in October for the next academic year. (i.e., in October 2019, you can complete the FAFSA if you plan to register for classes at a university Fall 2020) <input type="checkbox"/> Check with your advisor for important deadlines and dates. |
| ◆ | ENGR 2302 – Engineering Mechanics – Dynamics | |
| ◆ | GOVT 2305 – Federal Government (core course) | |
| ◆ | MATH 2415 – Calculus III | |

TOTAL SEMESTER CREDIT HOURS: 14

| D | SEMESTER 5 | ACTION ITEMS |
|---|---|---|
| ◆ | GOVT 2306 – Texas Government (core course) | <input type="checkbox"/> After reviewing your degree plan and program of study, apply for Graduation. <ul style="list-style-type: none"> ○ Meet with your advisor to apply for the Associate of Science degree in Electrical Engineering. ○ Sign up for commencement. <input type="checkbox"/> Request final transcripts to be sent to PVAMU. <input type="checkbox"/> Join the Alumni Network! |
| ◆ | ENGR 2308 – Engineering Economics ^{ix} | |
| ◆ | CHEM 1411 – General Chemistry I | |
| ◆ | ENGR 2105 – Electrical Circuits I Laboratory ^x | |

TOTAL SEMESTER CREDIT HOURS: 14

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 Electrical Engineering program at PVAMU. *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.
^{ix} To register for ENGR 2308, you must have completed MATH 2413 and be concurrently enrolled in ECON 2301 OR ECON 2302.
^x To register for ENGR 2105, you must have completed MATH 1316 and ENGR 1304 and be concurrently enrolled in ENGR 2305.