

Electrical Engineering

ASSOCIATE OF SCIENCE DEGREE (MRP)

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The first two years of a bachelor's degree in **Electrical Engineering** may be completed at Tacoma Community College. Completing the courses in the suggested schedule below will satisfy the Electrical Engineering MRP Associate of Science Degree. This degree is appropriate for all those pursuing electrical engineering unless you know for certain that you will be attending the **University of Washington - Tacoma, Western Washington University, or Eastern Washington University.** For these universities, you might consider the Associate of Science - Computer Engineering Specialization degree. Upon completion of this degree, students will be able to transfer to most four-year colleges and universities as juniors. Entry into many engineering programs is competitive. Completion of this degree does not guarantee admission into a specific engineering program. Although advisors make every effort to consult with various colleges and universities regarding requirements, students are encouraged to consult catalogs, websites and advisors at their chosen four-year institutions during their freshman year.

Preparation: While in high school, students should pursue all of the available courses in mathematics, chemistry, biology, computer programming and physics.

Program Planning: Students should meet with an engineering advisor as soon as they are admitted. Use the Program Requirement Table to select Specialization courses that are appropriate for your university and discipline. Use the Offerings and Prerequisite handouts to determine which quarters classes are planned for the next year. Students may also refer to the Associate of Science degree description located in the Tacoma Community College catalog, TCC website, and Engineering Canvas page. Many courses have prerequisites, are offered only once or twice a year and are sequential. Careful selection of classes each quarter is necessary to complete the program without delay. The following schedule is intended as one possible order of classes and is not the only method or even a preferred method to complete the degree. Each student's schedule will vary based on his/her level of preparation and intended major and university.

Sample Schedule:

Pre-engineering Year		
Fall	Winter	Spring
MATH 96/140 ■ ▲	MATH& 141 ■	MATH& 142 ■
ENGL& 101 ▲	Multicultural Humanities/Social Science ▲	CHEM& 161
ENGR& 104 ▲	CHEM& 140 ■▲	ENGL& 235 ▲
First Year		
Fall	Winter	Spring
MATH& 151	MATH& 152	MATH& 153
CS 142	CS 143	PHYS& 221
ENGR& 114 ▲		ENGR& 214
Second Year		
Fall	Winter	Spring
MATH 220	MATH 238	MATH& 254
PHYS& 222	PHYS& 223	ENGR& 204 ●
ENGR& 215		ENGR& 224 ●

- Class does not count in the AS in Engineering degree but is a prerequisite for some degree classes.
- ▲ Class requires few prerequisites and may be taken early, during the pre-engineering year.
- Class typically only offered once a year in the quarter shown.

Program Code: AS MRP – Elect/Comp Engr Last Update: Jan 2019



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(104 credits)

1. Basic Requirements (15 credits)

- ENGL& 101
- MATH& 151, 152

2. Humanities & Social Sciences (15 credits)

- Humanities course from approved list ENGR& 114 recommended
- Social Science course from approved list ENGR& 104* recommended
- Humanities or Social Science course

At least one course must be designated a multicultural course.

3. Required Specialization Courses (49 credits)

- MATH& 153, MATH 220, 238
- CS 142
- PHYS& 221, 222, 223
- CHEM& 161
- ENGR& 204

4. Additional Specialization Courses (25 credits)

Select five of the following classes as appropriate for intended major and bachelor's institution:

CS 143 MATH& 254** ENGR& 104*, 214, 215, 224, 240 CHEM& 162 BIOL& 222 ENGL& 235

Note: Most classes on this list have prerequisites. Students who are not ready for MATH& 151 and ENGL& 101, and those who have not taken high school chemistry will require additional classes.

This degree requires 104 credit hours (longer degree implemented on a state-wide level.) Some students may need to take additional prerequisite courses. See catalog for prerequisite information. The Humanities and Social Science courses must total 15 credits from the distribution course lists including at least one course from the multicultural list. While more than one class may be acceptable for the Associate of Science degree, four-year institutions may require a specific class for a specific engineering major. Financial aid recipients can receive aid for up to 125% of the required college level credits to complete the program. This includes college level prerequisites. Detailed information is available from the Financial Aid Office.

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^{*} Engr& 104 may be taken either to meet Social Science requirement OR to meet Additional Specialization Course requirements, not both. (ie. No double counting.)

^{**} MATH& 254 required for UW transfers.