

Electrical Engineering

ASSOCIATE OF SCIENCE DEGREE

Faculty Advisors: Jon Armel, Jared Abwawo

TCC's Associate of Science in Computer and Electrical Engineering Degree is a state recognized Major Related Program (MRP) designed to provide a pathway for students who plan to transfer to a Bachelor of Science degree program in Computer Engineering or Electrical Engineering. After completing the degree courses, the student must apply to graduate with the AS MRP degree. This MRP degree is generally the best fit for Electrical Engineering majors, but some may be advised into a general AS-T2. 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. Courses in this pathway are relevant for multiple majors, so a course may apply to one particular major, but not another. Students should work with advisors at TCC and their university advisors to make sure that all entry requirements are met. Students should check with their transfer institution for admission requirements, including overall minimum GPA, a higher GPA in a selected subset of course, or a specific minimum grade in one or more courses such as math or English. Admission deadlines for transfer institutions vary and students are required to meet the transfer admission deadline of their intended transfer institution. Students are encouraged to enroll in math and science sequence courses at a single institution and, if possible, not break up sequenced courses between institutions.

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

Academic Plan: Students should meet with an engineering advisor as soon as they are admitted. 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 a sample academic plan. It is not the only method or even the preferred method to complete thedegree. Each student will have an individualized academic plan based on preparation level, start quarter, full time versuspart time status, major and intended university for transfer. Check current year's planned course offerings.SAMPLE SPECIALIZATION DEGREE MAP – Computer Engineering

Pre-engineering Year Fall MATH& 141 MATH 041 COL 101	Winter MATH& 142 ENGL& 101 WRITE 95 ENGR& 104	Spring MATH& 151 CHEM& 140 CS 120	Summer
First Year Fall MATH& 152 CHEM& 161 CS 142	Winter MATH& 153 ART& 100 CS 143	Spring MATH& 254 PHYS& 221 ENGL& 235	Summer
Second Year Fall MATH 220 PHYS& 222 ENGR& 214	Winter PHYS& 223 ENGR& 215 ECON& 202	Spring ENGR& 204 MATH 238 ENGR& 224	Summer

This degree requires 90 credit hours. Students may need to take additional prerequisite courses. See catalog for prerequisite information. The Humanities and Social Science courses must total 15 credits taken from the distribution course lists including at least one course from the multicultural list. Engr& 104 is a required Social Science course. Engr& 114 is a recommended Humanities course. (It may be taken as a Humanities course or as a Specialization course, not both.) 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. Admission to some university programs will require more the minimum courses. Financial aid recipients can receive aid for up to 125% of the required college level credits to complete the program. This includes college level pre-requisites. Detailed information is available from the Financial Aid Office.



Associate of Science in Computer and Electrical Engineering

Degree Completion Worksheet (Not an official evaluation document)

BASIC REQUIREMENTS (15 credits) Communication Skills - 5 credits 1. ENGL® 101 Cuantitative Skills - 10 credits 1. MATH® 151 2. MATH® 152 5. Credits HUMANITIES AND SOCIAL SERVICE DISTRIBUTION REQUIREMENTS (15 credits) - 5 credits Humanities - 15 credits - 15 credits - 15 credits 10 credits	Advisor: NAME:	SID:Date:						
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