



Computer Engineering

ASSOCIATE OF SCIENCE DEGREE

Faculty Advisors: David Anderson, Jon Armel

Computer Engineering majors generally find that the Associate of Science (AS-T2) with Computer Engineering Specialization fits their bachelor's degree requirements better than the Associate of Science in Computer and Electrical Engineering Degree than the state recognized Major Related Program (MRP) degree. After completing the degree courses, the student must apply to graduate with the AS-T2 or MRP 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. 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 the degree. Each student will have an individualized academic plan based on preparation level, start quarter, full time versus part time status, major and intended university for transfer. Check current year's planned course offerings. SAMPLE SPECIALIZATION DEGREE MAP – Computer Engineering

First Year

Fall

MATH& 141
MATH 041
COL 101

Winter

MATH& 142
ENGL& 101
WRITE 95
CS 120

Spring

MATH& 151
HIST& 128
ENGR& 104 OR
ECON& 202

Summer

Math& 152
ART 100

Second Year

Fall

MATH 153
PHYS& 221
CS 142

Winter

MATH 220
PHYS& 222
CS 143

Spring

ENGR& 204
MATH 238
PHYS& 223

Summer

Math& 254
ENGL& 235

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 (AS-T2) with Computer Engineering Specialization

Degree Completion Worksheet (Not an official evaluation document)

BASIC REQUIREMENTS (15 credits)				
Communication Skills - 5 credits	1. ENGL& 101	GR	CR	5
	2. MATH& 151			5
Quantitative Skills - 10 credits	1. MATH& 151			5
	2. MATH& 152			5
DISTRIBUTION & COMPUTER ENGINEERING SPECIALIZATION REQUIREMENTS (69credits)				
Humanities & Social Sciences - 15 credits <i>Most students fulfill the Multicultural Requirement here.</i>	1.			At least five credits must be a multicultural course. • 5 credits Humanities • 5 credits Social Sciences (Economics and Engr& 104 Recommended) • 5 additional credits Humanities or SocialSciences
	2.			
	3.			
Specialization Courses - 54	1. PHYS& 221			6
	2. PHYS& 222			6
	3. PHYS& 223			6
	1. CS 142			5
	2. CS 143			5
	1. MATH& 153			5
	2. MATH& 254			5
	3. MATH 220			5
	4. MATH 238			5
	5. ENGR&204			6
REMAINING COLLEGE LEVEL ELECTIVES (6 credits) Selection depends on the intended				
	<input type="checkbox"/>			• Choose one of the following: ENGL&235, ENGR&224, ENGR 240, CHEM&161, CHEM&162
	<input type="checkbox"/>			
	<input type="checkbox"/>			
TOTAL COLLEGE LEVEL CREDITS EARNED TOWARD THE DEGREE:			Credit	<input type="checkbox"/> At least 5 credits applied to the degree are from an approved multicultural course.
College Level Credits Required:			90	
To earn the Associate of Science degree, student must have earned at least 30 applicable credits at TCC, have a cumulative GPA of 2.00 in all coursework applied to the degree, and have a cumulative GPA of 2.00 in all TCC college-level courses.				

NAME: _____ SID: 201 Date: _____