



Computer Engineering

ASSOCIATE OF SCIENCE DEGREE (Track 2)

Advisor(s): Martin Hock (253-566-5099), David Straayer (253-460-4390), Jon Armel (253-566-5143)

The first two years of a bachelor's degree in **Computer Engineering** may be completed at Tacoma Community College. Completing the courses in the suggested schedule below satisfies the Associate of Science Degree, Computer Engineering Specialization (Track 2). Upon completion of this degree, students may be able to transfer to most four-year colleges and universities as juniors. This degree is usually the best choice for students who are planning to major in computer engineering at most universities or students who are planning to major in **Electrical Engineering at the University of Washington-Tacoma, Eastern Washington University or Western Washington University**. 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 the available courses in mathematics, chemistry, computer programming and physics.

Program Planning: Students should meet with an advisor as soon as they are admitted to Tacoma Community College. Students may also refer to the Associate of Science degree description located in the Tacoma Community College catalog. 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.

First Year

Fall

Elective
MATH& 151*
ENGL& 101

Winter

Social Science
MATH& 152
ENGL& 235

Spring

PHYS& 221
MATH& 153
Humanities

Second Year

Fall

PHYS& 222
MATH 220
CS 142

Winter

PHYS& 223
MATH 238
CS 143

Spring

ENGR& 204
MATH& 254
Humanities or Social Science

- *Some students may need to take additional prerequisite courses.
- The Humanities and Social Science courses must be chosen from the Humanities and Social Science distribution course lists.
- At least one Humanities or Social Science course must also appear on the Multicultural course list.
- PE activity courses may not be used as elective courses.



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(90 credits)

The following course set fulfills the Specialization Requirement for the Associate of Science degree. This degree is generally appropriate for students studying computer engineering, and those electrical engineering students going to UWT, WWU and EWU, while the Associate of Science in Electrical and Computer Engineering (MRP) is usually advised for all other electrical engineering students.

1. Basic Requirements (15 credits)

- ENGL& 101
- MATH& 151, 152

2. Humanities & Social Science (15 credits)

- Select five Humanities credits from the Approved Distribution Course List
- Select five Social Science credits from the Approved Distribution Course List
- Select five additional Humanities or Social Sciences credits from the Approved Distribution Course List

At least one of the courses selected above for Humanities or Social Science must be an approved multicultural course. Approved multicultural courses are identified on the Approved Distribution Course List and in the Credit Course Descriptions.

3. Required Specialization Courses (59 credits)

- CS 142, 143 (10 credits)
- PHYS& 221, 222, 223 (18 credits)
- MATH& 153, 254 (10 credits)
- MATH 220, 238 (10 credits)
- ENGR& 204 (6 credits)

This specialization requires a minimum of **5 credits** from the following list. Selection depends on the intended engineering university. These 5 credits must be approved by an engineering advisor.

- ENGL& 235
- ENGR& 224
- ENGR 240
- CHEM& 161, 162

4. Elective Credits (1 credit minimum)

Any college level course (courses numbered 100 or above) may be used to satisfy this elective credit except PE activity courses.