

Electrical and Computer Engineering Advising

Revised 11/15/11

Course #	Description	TCC	UW		WSU		Seattle U		UWT	EWU	SPU	
		A.S.	CompE	EE	CompE	EE	CompE	EE	CompE	EE	CompE	EE
Math& 151, 152, 153	Calculus 1, 2, 3	R	√	√	√	√	G	G	G	G	G	G
Math& 254	Calculus 4	S	√	√	G	√	G	G	G	G		G
Math 238	Differential Equations	R	A	G	G	G	G	G	G	G	G	G
Math 220	Linear Algebra	R	G	G	G	G	G	G	G	G	G	G
Physics 121	Calc Based Physics 1	R	√	√	√	√	G	G	G	G	G	G
Physics 122	Calc Based Physics 2	R	√	√	√	√	G	G	G	G	G	G
Physics 123	Calc Based Physics 3	R	A	G	√	√	G	G	G	G	G	G
Chem& 161	General Chem 1	R	A	√	√	√		P	A	G	G	G
Chem& 162	General Chem 2	S	A	A ²								
Engr& 104 ¹	Intro to Design	Soc Sci	A	A	A	A	G	G	A		A	A
Engr& 204	Electric Circuits	R	G	G	√	√	G	G	G	G	G	G
Engr& 214	Statics	S		A ²		A		P				A
Engr& 215	Dynamics	S		A ²		P		P				A
Engr& 224	Thermodynamics	S		A ²		A		P				A
Biol& 222	Cellular & Molecular	S									G	G
Num Methods	Matlab	Not avail					G	G				
CS 142	Java 1	R	√	G	√ C++	√ C++	G C++	G C++	G	G C++	G C++	G C++
CS 143	Java 2	R	√	G	√ C++	√ C++	G C++		G		G C++	G C++
Engl& 101	English Composition 1	R	√	√	G	G	G	G	G	& 102	G	G
Engl& 235	Technical Writing	S	G	G	G	G			G	G		
Hum and Soc Sci ¹		R	A	A	A	A	A	A	A	A	G	G

TCC Key:

R = Required for the Associate of Science degree - Electrical and Computer Engineering specialization

S = Specialization Course - a minimum of 4 courses required for the AS degree

University Key:

√ = Required for admission to the UW engineering department or certification into the WSU engineering department

G = Graduation requirement for the Bachelor of Science at the university

A = Meets an additional requirement- The university requires the selection of additional classes from specific lists for the BS.

P = Provides preparation for junior level university coursework and/or for the FE/EIT exam, the first step to being licensed.

C++ = The equivalent course at this university is a C/C++ course. Check with the university to see if Java is acceptable.

Additional notes

1 Engr 104 is a Social Science. Engr 114 is a Humanities. The AS degree requires 15 credits of Humanities and Social Science. At least 5 credits must be a Humanities and 5 credits must be a social science. One class must meet the multicultural requirement. See approved lists. Universities may have specific course Humanities/Social Science course requirements.

² UW EE department requires a minimum of three classes with this ² superscript for the BSEE. All are topics on FE/EIT exam.

3 SMU requires English 102 instead of English 235. English 102 may be substituted for 235 in the AS degree.

Electrical and Computer Engineering Advising

University of Washington

Apply to both the University and the department. Both the Computer and Electrical Engineering departments admit fall and spring quarters. See university website for important deadlines.

University of Washington requires core requirements from high school. This applies even if high school was years ago! High school is considered to start in 9th grade. The core requirements are 4 years of English, 3 years of math, 3 years of social science, 2 years of foreign language, 2 years of lab science, and 0.5 years of art. If you did not complete these in high school, the requirements can be met through TCC courses. In general, 1 year of high school class = 5 credits of college work. See the University of Washington website for more details.

Sometimes we advise students to transfer before completing the AS degree, if they have completed all required courses for admission to their department, and completing the AS degree would impact their ability to transfer into a fall admission program. In these cases, we still encourage students to consider transferring courses back to TCC to complete the AS degree.

Washington State University

WSU is on the semester system, rather than the quarter system. They require application to the university, followed by certification into the program. See university website for important deadlines.

WSU requires a writing portfolio. Save samples of graded written work from TCC. Download forms from the WSU website, and ask your instructor to sign them. Do it as you are taking classes, rather than having to go back and ask instructors to evaluate your work again.

WSU gives advantages to completing the Associate of Science degree. Students who complete the AS degree do not need to take WSU's Gen Ed 110 and 111. The Biological Science Gen Ed requirement is waived, unless required by the degree program. All courses designated as Humanities and Social Sciences by TCC will be accepted as Humanities and Social Sciences by WSU, regardless of individual course transferability.

Take Econ& 202 as a social science elective at TCC.

Seattle University

SU does not require the AS degree, or give any benefit for its completion. Take PHIL& 101 and HIST& 125, 127 OR 128 while at TCC.

The programming language at SU is C/C++. The CompE program evaluates those with Java, and will work with you to transition. The EE program accepts Java as a substitute. As an EE or CompE it would probably be a good idea to know both languages anyway.

University of Washington Tacoma

We generally suggest that UW-T students planning to major in Computer Engineering transfer after completing required courses, but before completing the AS degree. This program recently became ABET accredited. Take 10 credits of humanities and 5 credits of social science.

Eastern Washington University

EWU has engineering programs in ME and EE, as well as a number of technology programs. In addition to their main campus in Cheney, there is a satellite EE program at North Seattle Community College. Acceptance to the major is automatic once students have been accepted to the university and have signed a major declaration card. One Java (CS 142) class is accepted. Students who complete the AS degree do not need to take 25 credits in the General Education Core requirements. All courses designated as Humanities and Social Sciences by TCC will be accepted as Humanities and Social Sciences by EWU, regardless of individual course transferability. No biological sciences, or macro/micro economics courses are required for graduation. Check with the EWU Engineering Advisor for assistance.

Seattle Pacific University

SPU has computer and electrical engineering degrees, as well as general engineering degrees. SPU recommends completing the AS degree.

It is the student's responsibility to check university websites and meet with university advisors to ensure the accuracy of advising information.