

Electrical and Computer Engineering Advising

Revised 2/8/2017

Course #	Description	TCC - AS -T degree		UW- Seattle		WSU - All		Seattle U		UW- Tacoma		EWU	WWU	SPU		Gonzaga U		PLU
		EE/Comp Eng	CompSci	CompE	EE	CompE	EE	CompE	EE	CompE	EE	EE	EE	CompE	EE	CompE	EE	CompE
Math& 151, 152, 153	Calculus 1, 2, 3	R	R	√	√	√	√	G	G	√	√	G	√	G	G	G	G	G
Math& 254	Calculus 4	S	S or E	√	√	√	√	G	G	√	√	G	G	G	G	G	G	G
Math 238	Differential Equations	R	S or E	A	G	G	G	G	G	√	√	G	G	G	G	G	G	G
Math 220	Linear Algebra	R	R	G	G	√	√	G	G	√	√	G	√	G	G		P	G
Phys& 221	Calc Based Physics 1	R	R	√	√	√	√	G	G	√	√	G	√	G	G	G	G	G
Phys& 222	Calc Based Physics 2	R	R	G	√	√	√	G	G	√	√	G	√	G	G	G	G	G
Phys& 223	Calc Based Physics 3	R	R	A	G	G	G	G	G	√	√	G	G	G	G	G	G	G
Chem& 161	General Chem 1	R	NS or E	A	√	G	G		P			G	G		G	G	G	G
Chem& 162	General Chem 2	S		A	A ^z													
Engr& 104 ¹	Intro to Design	S or Soc	Soc	A	A	A	A	G	G	A	A			G	G			G
Engr& 204	Electric Circuits	R	S	G	G	√	√	G	G	√	√	G	√	G	G	G	G	G
Engr& 214	Statics	S			A ^z		A		P						A		G	A
Engr& 215	Dynamics	S			A ^z		A		P						A		P	
Engr& 224	Thermodynamics	S			A ^z	A	A		P						A		P	A
Engr 240	Matlab	S						G	G									A
CS 142	Java 1	R	R	√	G	√	√	G C++	G C++	√ C++	√ C++	G C++	√ C++	G C++	G C++	G	G	G
CS 143	Java 2	S	R	√	G	√	√	G C++		√ C++	√ C++			G C++	G C++		G C++	G
Engl& 101	English Composition 1	R	R	√	√	G	G	G	G	G	G	& 102		A	A	G	G	G
Engl& 235	Technical Writing	S		G	G	G	G			A	A	G				G 103 ⁴	G 103 ⁴	
Biol& 222	Cellular & Molecular	S																
Natural Science (NS)	5 credits		R	A						A	A							
Hum and Soc Sci ¹	15 credits	R	R	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Recommendation = Generally EE students are best served with the TCC AS-T EE/CompE MRP degree. CompE students may be best served with TCC AS-T -Track 2 CS.

Exception - Students going to EE in UW-T, EWU and WWU may fit best with AS-T Track 2 CS. If you want to have the most flexibility, do the MRP.

TCC Key:

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

S = Specialization Course - a minimum of 5 courses required for the AS EE/CompE MRP degree -minimum of 1 course required for AS-CS

E = Electives - AS-CS - Select 3 electives for the program you plan to attend. Chem 161 is not an AS-T CS degree requirement, but can count as either a Natural Science or Elective. All programs will require additional humanities and social sciences.

University Key:

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

G = Graduation requirement for the Bachelor of Science at the university. These are freshman/sophomore level courses so take now, if possible.

A = Meets an add'l requirement-University requires the selection of additional classes from specific lists for the BS.

P = Provides prep 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. It may be expedient to take programming at the university and transfer credits back to the CC for AS. However, knowing both languages is a benefit for majors.

Additional notes

¹ Engr 104 is a Social Science. Engr 114 is a Humanities. AS degrees require 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 dept 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.

⁴ GU requires English 103 instead of English 235. English 103 may be substituted for 235 in the AS degree.

Electrical and Computer Engineering Advising

University of Washington - Seattle

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.

UW 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 UW website for more details.

Sometimes we advise students to transfer before completing an 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 now offers an Electrical Engineering program in Bremerton. This program is accredited as part of the WSU-Pullman program. Students should complete the AS degree before transferring to this program. Any missing G courses could delay graduation. This program is in addition to the programs on the Pullman campus.

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. Generally, courses designated as Humanities and Social Sciences by TCC will be accepted as Humanities and Social Sciences by WSU.

Take Econ& 202 as a social science elective at TCC. Majors are recommended to take WSU CptS 121 and 122 after transfer even if they complete Java 1 & 2.

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

The University of Washington - Tacoma is a separately accredited from the University of Washington- Seattle. Each school has its own requirements, and application process. While the Computer Engineering program is ABET accredited, the Electrical Engineering program is too new to be ABET accredited yet. Please talk to UW-T for more info. Take 10 credits of humanities & 5 credits of social science.

Eastern Washington University

EWU has engineering programs in ME & EE, as well as a number of technology programs. In addition to the main campus in Cheney, there is a satellite EE program at North Seattle CC. 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 & Social Sciences by TCC will be accepted as Humanities & 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.

Western Washington University

WWU's Electrical Engineering Technology (MET) program is being replaced by an Electrical Engineering program. Apply for admission to the program for fall of your sophomore year. Completing the

Seattle Pacific University

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

Gonzaga University

GU offers CompE, EE, CE, ME, Engr Mgmt. AS degree not req'd. Take ENGL 103; PHIL& 101, 106, 215 & elective; CMST& 101 & MATH 210 while at TCC. One Java (CS 142) class is accepted.

Pacific Lutheran University

PLU offers a BS degree in computer engineering. Our computer engineering program is accredited by the Engineering Accreditation Commission of ABET. We recommend 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.