ENGINEERING TRANSFER:

This program is designed to prepare students to transfer to a Bachelor's Degree program in a variety of engineering majors including aeronautical, biological, chemical, civil, computer, electrical, mechanical, and manufacturing engineering, as well as material science.

EVERETT COMMUNITY COLLEGE

	Communication Skills	Humanities and Social Science	Engineering	Mathematics	Science
			← Look across each row for courses typically taken together. →	**Pre-College Math (76, 86, 96)**	
Phase 1	**Pre-College ENGL (098)**		Each row is organized as a suggested quarter of classes for a full time student at the math level shown.		
	ENGL& 101: English Composition I		**STEM 101:** College Success in STEM	**MATH& 141:** Precalc. I: College Algebra	**CHEM& 140:** General Chemistry Prep w/Lab
			ENGR 111: Intro. to ENGR I: Modeling and Analysis	**MATH& 142:** Precalc. II: Trigonometry	**CHEM& 161:** General Chemistry w/Lab I
Recommended Actions: Meet with your Adviser, Join a Club, Visit the Tutoring center					AE, ME, Civ E
		Diversity Course (See list)		**MATH& 151:** Calculus I	**CHEM& 162:** General Chemistry w/Lab II — Comp., Elec.
Recommended Actions: Explore different disciplines, Investigate transfer options, Update your Resume.			**ENGR 121:** Intro. to ENGR 2: Computing and Design	**MATH& 152:** Calculus II	**PHYS& 114:** General Physics I
Phase 2			See adviser to build a path for disciplines that are not shown.		
	ENGL& 235: Technical Writing and Research			**MATH& 163:** Calculus 3	PR 1 — **PHYS& 241/231:** Engineering Physics I w/Lab
			Aeronautical / Mechanical, Civil / Computer, Electrical		
Recommended Actions: Apply to Bachelor Degree program, Apply for Graduation, Apply for summer internships, Build something (clubs help!)					
Phase 3			**ENGR& 114:** ENGR Graphics	**MATH 260:** Linear Algebra	**PHYS& 242/232:** Engr Physics II w/Lab — **PHYS 130:** Fab Skills and Safety
			PL **CS& 131 or CS& 141 :** Comp. Science I		
			ENGR& 214: Statics ← PR 1	**MATH 261:** Differential Equations	**PHYS& 243/233:** Engineering Physics III w/Lab
			PL **CS& 132 or CS& 143 :** Comp. Science II		
		Humanities and Social Science Choice	**ENGR& 215:** Dynamics	**MATH& 264:** Calculus 4	
			EE Elective 1		
			ENGR& 225: Mech. of Materials		
			ENGR& 205: Electric Circuits Lab ↔ **ENGR& 204:** Electric Circuits		
		Humanities and Social Science Choice	**ENGR 240:** Applied Numerical Methods		
			EE Elective 2		
			Aero. **ENGR& 224:** Thermodynamics		
	Associate of science transfer degree completion				
			Junior Level Classes		

STEM Pathway

Key:

- Prerequisite Course
- Required for Associate of Science Transfer (AS-T) degree from EvCC
- Required to reach Junior Level (two years remaining to earn Bachelor's Degree)
- Admission requirement for Bachelor degree programs
- Junior level course that fulfills a Bachelor's degree requirement
- Prerequisite requirements
- Suggested Path

Notes:

PR1— Used to extend prerequisite arrow across diagram to second PR1 note.

PL — For CS I and II, choose your programming language based on your intended transfer destination. For UW-Seattle choose JAVA (CS 141 & 143) for all other transfer schools choose C++ (CS 131, 132)

Electrical Engineering Electives

Choose two Courses from the following:

University of Washington	Washington State University
CHEM& 162: General Chemistry w/Lab II	
ENGR& 202: Design of Logic Circuits	
ENGR& 214: Statics	**ENGR& 214:** Statics
ENGR& 215: Dynamics	**ENGR& 215:** Dynamics
ENGR& 224: Thermodynamics	**ENGR& 224: Thermodynamics**
ENGR 240: Applied Numerical Methods	**ENGR 240:** Applied Numerical Methods

Junior Level Courses

EvCC Offers the following Junior Level Courses:

	University of Washington	Washington State University	
ME	**ENGR 201:** Materials Science	**ENGR 201:** Materials Science	**ENGR 220:** Breaking Lab
	ENGR& 204: Electric Circuits	**ENGR& 204 and 205:** Electric Circuits w/Lab	**ENGR& 224: Thermodynamics**
		ENGR 216: Integrated CAD	**MFG T 103:** Machining for Engrs
EE		**ENGR& 202:** Design of Logic Circuits	
Comp. Engr		**CS 233 or 244** Advanced Data Structures	

Humanities and Social Sciences

15 credits, in three different disciplines. At least one from Humanities and at least one from Social Sciences. There are some recommended courses below. See course schedule for full list of humanities and social science courses offered. All students must take at least one Diversity course and many of these also count as humanities or social science credit. Diversity courses have a "D" in the course number, for example "ART 124**D**". For engineering students considering WSU, we recommend choosing a diversity course that also meets WSU's diversity requirements (see below).

Recommended Humanities:

Any humanities course that also meets the Diversity Courses accepted at WSU

- **ART 110 or 111** 2D or 3D Design - Creative design
- **CMST& 210** Interpersonal Comm. - Helpful for team projects
- **CMST& 220** Public Speaking - Helpful for presentations
- **Foreign Language** - Communication with global teams

Recommended Social Sciences:

Any Social Science course that also meets the Diversity Courses accepted at WSU

- **ECON& 201 or 202** Micro or Macro Economics - Required at WSU for EE
- **ECON& 202** Macro Economics - Required at WSU for ME
- **BUS& 101** Intro to Business - Good for management or starting your own business

STEM Pathway

Student Resources:

https://www.everettcc.edu/students/

Important steps for each phase of your education:

Phase 1

Meet with your adviser and make an academic plan, Join Trio or MESA, Join a Club, Visit the Tutoring Center

How to get to know your campus and peers?

Join a Club (link to EvCC page), form study groups, visit the STEM Maker Space, drop by the tutoring center, get to know your Engineering Tech, get to know your faculty outside of class (ex. visit them during office hours), visit the library.

Phase 2

What's your favorite part of your engineering course work (programming, building, modelling, circuits, etc)? Schedule an advising meeting or drop in to office hours to chat about this with your adviser or one of your teachers.

Attend a resume workshop! Check out company or organization websites to find out more about what engineers do. Attend a career fair.

Visit a transfer school campus or at least their websites. Could you see yourself on that campus?

Phase 3

Choose 2 or 3 schools that you would like to transfer to. Find out their transfer application deadlines and start your application. Build something, or learn something new! Update your resume to include those cool projects that you've been working on (ex. course projects, club projects or personal projects).

Attend a career fair and apply for internships!

Are you on track to graduate? If you aren't sure, meet with your adviser.

Get Involved! Opportunities to get active in the STEM Community

Clubs:

STEM Club, SWE (Society of Women Engineers), SHPE (Society of Hispanic Professional Engineers), MESSA (Math, Engineering & Science Student Association), ACM (Association for Computing Machinery), Society of Physics Students

Activities:

Internship workshops, Resume workshops, Video Game Nights, STEM Pizza Parties, STEM Student Exhibition, and much more!