CompE

Computer Engineering
Graduation Requirements
University of Washington
https://cs.washington.edu

ENGRUD Requirement Sheet – Key
◆ = Placement Requirements

Placement Periods
Placement 1 = July 1 at end of first year
Placement 2 = January 15 of second year

Mathematics (21-24cr)	
◆ **MATH 124, 125, 126 - Calculus with Analytical Geometry I, II, III (15cr)**	☐
MATH 308 - Matrix Algebra with Applications (3cr) [pr: MATH 126]	☐
3-6cr from the following: STAT 390, STAT 391, STAT 394, MATH 307, MATH 309, MATH 334, MATH 335, AMATH 351, AMATH 353	☐
Sciences (20cr)	
◆ **PHYS 121 - Mechanics (5cr) [pr: MATH 124 or Math 134]**	☐
PHYS 122 - Electromagnetism (5cr) [pr: MATH 125 or MATH 134; PHYS 121]	☐
10 additional credits from list on CSE website	☐
Engineering General Education Requirements (42cr)	
Written and Oral Communication (12cr):	
◆ **English Composition (5cr)**	☐
ENGR 231 - Intro to Technical Communication (3cr)	☐
Add'l writing (4cr)	☐
Areas of Knowledge:	
Visual, Literary & Performing Arts - VLPA (10cr)	☐
Individuals & Society - I&S (10cr)	☐
VLPA or I&S (10cr)	☐
Diversity - DIV (3cr) - (may overlap with VLPA/I&S)	☐

Departmental Core (36cr)	
◆ **CSE 142 - Computer Programming I (4cr)**	☐
◆ **CSE 143 - Computer Programming II (5cr)**	☐
CSE 311 - Foundations of Computing I (4cr)	☐
CSE 312 - Foundations of Computing II (4cr)	☐
CSE 332 - Data Structures and Parallelism (4cr)	☐
CSE 351 - The Hardware/Software Interface (4cr)	☐
CSE 369 - Introduction to Digital Design (2cr)	☐
CSE 371 - Design of Digital Circuits and Systems (5cr)	☐
Choose one: EE 215 (4cr) OR EE 205 (4cr)	☐
CSE Electives (36cr)	
Choose one: CSE 403 (4cr), CSE 474/E E 474 (4cr), or CSE 484 (4cr)	☐
Three additional courses chosen from the computer engineering systems electives list in the online CSE handbook	☐
Two additional courses chosen from the CSE core course list in the online CSE handbook	☐
A design capstone course from the approved list in the CSE handbook.	☐
4 credits of College of Engineering courses from the CSE elective list	☐
Additional (0-5 credits) CSE electives to being total CSE electives to 36 credits	☐
CoE Credits (36cr)	
College of Engineering prefix credits completed in the elective requirement above and/or additional credit not used to meet Core Requirements	☐
Free Electives (22-25cr)	
Additional coursework in any subject area not used elsewhere in degree.	☐
Total credits required for graduation: 180cr	

Honors or accelerated sequences of math and chemistry can satisfy some of the above requirements, see department website for specifics. AMATH 351/352/353 are alternatives to Math 307/308/309.

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This is a sample four-year plan for ENGRUD students. It is intended to provide a framework for ENGRUD students to reference as they create their own individual academic plan.

Courses required to request placement for ENGRUD students**: MATH 124, MATH 125, MATH 126; PHYS 121; CSE 142, CSE 143; 5 credits of English Composition.**

	Autumn Quarter	Cr	Winter Quarter	Cr	Spring Quarter	Cr
Freshman	◆ **MATH 124 - Calculus with Analytical Geometry I**	5	◆ **MATH 125 - Calculus with Analytical Geometry II**	5	◆ **MATH 126 Calculus with Analytical Geometry III**	5
	◆ **CSE 142 - Computer Programming I**	4	◆ **CSE 143 - Computer Programming II**	5	◆ **PHYS 121 - Mechanics**	5
	VLPA/I&S	5	◆ **English Composition**	5	VLPA/I&S	5
	E-FIG: ENGR 101 & GEN ST 199	2				
	Qtr. Total:	**16**	**Qtr. Total:**	**15**	**Qtr. Total:**	**15**
Sophomore	**Autumn Quarter**	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
	PHYS 122 - Electromagnetism	4	CSE 332 - Data Structures and Parallelism	4	CSE 312 - Foundations of Computing II	4
	CSE 311 - Foundations of Computing I	5	CSE 351 - The Hardware/Software Interface	4	CSE Core Course	4
	VLPA/I&S/DIV	5	CSE 391 - Systems and Software Tools	1	MATH 308 - Matrix Algebra with Applications	3
			EE 205 - Introduction to Signals Conditioning OR EE 215 - Fundamentals of Electrical Engineering	4	ENGR 231 - Intro to Technical Communication	3
	Qtr. Total:	**14**	**Qtr. Total:**	**13**	**Qtr. Total:**	**14**
Junior	**Autumn Quarter**	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
	CSE 369 - Introduction to Digital Design	2	CSE/EE 371 - Design of Digital Circuits and Systems	5	CSE Core Course	4
	Additional Writing	4	Systems Elective	4	Engineering Elective	4
	VLPA/I&S	5	Additional Science	5	Additional Science	5
	STAT 391 or Additional Math/Science	4			Free Elective	4
	Qtr. Total:	**15**	**Qtr. Total:**	**14**	**Qtr. Total:**	**17**
Senior	**Autumn Quarter**	**Cr**	**Winter Quarter**	**Cr**	**Spring Quarter**	**Cr**
	Systems Elective	4	Systems Elective	4	VLPA/I&S	5
	CSE 403 or 474 or 484	5	Free CSE Elective	4	Free Elective	5
	VLPA/I&S	5	VLPA/I&S	5	Design Capstone	5
	Free Elective	2	Free Elective	3		
	Qtr. Total:	**16**	**Qtr. Total:**	**16**	**Qtr. Total:**	**15**

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