

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
 Placement 3 = July 1 at end of second year

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

| | |
|---|--------------------------|
| Departmental Core (36cr) | |
| ◆ CSE 142 - Computer Programming I (4cr) | <input type="checkbox"/> |
| ◆ CSE 143 - Computer Programming II (5cr) | <input type="checkbox"/> |
| CSE 311 - Foundations of Computing I (4cr) | <input type="checkbox"/> |
| CSE 312 - Foundations of Computing II (4cr) | <input type="checkbox"/> |
| CSE 332 - Data Structures and Parallelism (4cr) | <input type="checkbox"/> |
| CSE 351 - The Hardware/Software Interface (4cr) | <input type="checkbox"/> |
| CSE 369 - Introduction to Digital Design (2cr) | <input type="checkbox"/> |
| CSE 371 - Design of Digital Circuits and Systems (5cr) | <input type="checkbox"/> |
| Choose one: EE 215 (4cr) <u>OR</u> EE 205 (4cr) | <input type="checkbox"/> |
| CSE Electives (36cr) | |
| Choose one: CSE 403 (4cr), CSE 474/E E 474 (4cr), or CSE 484 (4cr) | <input type="checkbox"/> |
| Three additional courses chosen from the computer engineering systems electives list in the online CSE handbook | <input type="checkbox"/> |
| Two additional courses chosen from the CSE core course list in the online CSE handbook | <input type="checkbox"/> |
| A design capstone course from the approved list in the CSE handbook. | <input type="checkbox"/> |
| 4 credits of College of Engineering courses from the CSE elective list | <input type="checkbox"/> |
| Additional (0-5 credits) CSE electives to bring total CSE electives to 36 credits | <input type="checkbox"/> |
| 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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Paul G. Allen School of Computer Science and Engineering Advising

Office: 185 E Stevens Way NE, Suite 101
Seattle, WA 98195
Phone: 206-543-1695
E-mail: ugrad-advisor@cs.uw.edu

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 <u>OR</u> 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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