This resource is for ENGRUD students who entered the UW in AUT21 or later.

Human Centered Design and Engineering
Graduation Requirements
University of Washington
http://hcde.washington.edu

ENGRUD Requirement Sheet – Key:
◆ = Placement Requirements;
★ = Pick one to satisfy placement requirement
Placement: July 1 at the end of the first year

◆ E-FIG: ENGR 101 and GEN ST 199 (2cr)

Mathematics (15cr)
◆ MATH 124, 125, 126 – Calc w/ Analytical Geom. I-III (15cr)

Sciences (15cr)
◆ CHEM 142 - General Chemistry (5cr)
◆ PHYS 121 - Mechanics (5cr)
  [pr: MATH 124 or MATH 134]
Additional science from list below to reach 15cr

Additional Math/Science (20cr)
See list of qualifying courses on department website. Courses recommended by CoE for placement process include:
★ STAT 220 - Principles of Statistical Reasoning (5cr)
★ CHEM 152 - General Chemistry (5cr)
  [pr: CHEM 142, CHEM 143, or CHEM 145]
★ CHEM 162 - General Chemistry (5cr)
  [pr: CHEM 152]
★ PHYS 122 - Electromagnetism (5cr)
  [pr: MATH 125 or MATH 134]
★ PHYS 123 - Waves (5cr)
  [pr: MATH 126 or MATH 134; PHYS 122]

Engineering General Education Requirements (38cr)
Written and Oral Communication:
◆ English Composition (5cr)
  HCDE 231 - Intro to Communication in HCDE (3cr)
Areas of Knowledge:
Visual, Literary & Performing Arts - VLPA (10cr)
Individuals & Society - I&S (10cr)
Additional VLPA or I&S (10cr)
Diversity - DIV (3cr) (may overlap with VLPA / I&S

Engineering Fundamentals (12cr)
★ CSE 142 Computer Programming (4cr)
  OR
★ CSE 160 Data Programming (4cr)
8 credits from:
A A 210, A A 260, CEE 220, ★ CSE 143, E E 215, HCDE 496,
IND E 250, I S 300, ★ ME 123, ME 230, ★ MSE 170, PHIL 120

Departmental Core (41cr)
HCDE 300 - Foundations of HCDE (5cr)
HCDE 301 - Advanced Communication in HCDE (5cr)
HCDE 308 - Visual Communication in HCDE (5cr)
HCDE 310 - Interactive Systems Design and Technology (5cr)
HCDE 313 - Intro to User Research (5cr)
HCDE 318 - Intro to User Centered Design (5cr)
HCDE 321 - Portfolio (2cr)
HCDE 322 - Organizational Teamwork (2cr)
HCDE 492 - Capstone Planning (2cr)
HCDE 493 - Senior Capstone (5cr)

Experiential Learning (4cr)
Any combination of the following:
  ENGR 321 - Engineering Internship (1-2cr)
  HCDE 496 - Directed Research in HCDE (1-4cr)

Department Electives (25cr)
Complete one option below. See department for list of approved courses.
  a. Standard Option
  b. HCI (Human-Computer Interaction) Option
  c. Data Science Option

Free Electives (5-9cr)
Additional coursework in any subject are not used elsewhere in degree.

Total credits required for graduation: 180cr

AMATH 351/352/353 may be alternatives to MATH 207/208/209, work with the department to confirm.

Updated October 2021
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Human Centered Design and Engineering  
Graduation Requirements  
University of Washington  
http://hcde.washington.edu  

HCDE Advising  
Office: 428 Sieg Hall, Box 352315  
Seattle, WA 98195-2315  
Email: hcdehelp@uw.edu

This is a sample four-year plan for ENGRUD students that prepares them to be able to request placement at the end of the first year. 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: **ENGR 101; MATH 124, 125, 126; CHEM 142; PHYS 121; English Composition; ENGRUD students who are interested in HCDE should choose one of the following: CHEM 152, CHEM 162, CSE 142, CSE 143, CSE 160, ME 123, MSE 170, PHYS 122, PHYS 123, STAT 220.**

### First Year

<table>
<thead>
<tr>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>◆ MATH 124 - Calc w Analytic Geom I</td>
<td>◆ MATH 125 - Calc w Analytic Geom II</td>
<td>◆ MATH 126 - Calc w Analytic Geom III</td>
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<td>◆ English Composition</td>
<td>★ CSE 142 or CSE 160</td>
<td>★ PHYS 121 - Mechanics</td>
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<td>VLPA / I&amp;S</td>
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<td>★ STAT 220 - Statistics</td>
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<td>◆ E-FIG; ENGR 101 &amp; GEN ST 199</td>
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Qtr. Total: 15

### Second Year

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Qtr. Total: 15

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Qtr. Total: 17

### Fourth Year

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Qtr. Total: 13

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