This resource is for ENGRUD students who entered the UW in AUT23 or later.

Electrical and Computer Engineering Graduation Requirements University of Washington https://ece.uw.edu

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


## Mathematics (21cr)

MATH 124, 125, 126 - Calc w/ Analytic Geom I-III (15cr)
Math 207 - Intro. to Differential Equations (3cr) [pr: MATH 125]
MATH 208 - Matrix Algebra w/Applications (3cr) [pr: MATH 126]
Statistics (3-4cr)
One of the following: IND E 315 (3cr); STAT 390 (4cr)

## Sciences (15cr min.)

- CHEM 142 - General Chemistry (5cr)
- PHYS 121 - Mechanics (5cr)
[pr: MATH 124 or MATH 134]
$\star$ PHYS 122 - Electromagnetism (5cr)
[pr: MATH 125 or MATH 134]
$\star$ PHYS 123 - Waves (5cr)
[pr: MATH 126 or MATH 134; PHYS 122] OR Other Natural Science (NSc) (5cr)
Engineering General Education Requirements (69cr)
Written and Oral Communication (12cr):
- English Composition (5cr)

ENGR 231 - Introduction to Technical Communication (3cr) [pr: ENGL Composition]
E E 393 - Adv Tech Comm (4cr) or Dept. alternative [pr: ENGR 231]

## Areas of Inquiry:

Arts \& Humanities - A\&H (10cr)
Social Sciences - SSc (10cr)
Additional A\&H or SSc (4cr)
Diversity - DIV (5cr) - (may overlap with A\&H or SSc)
Additional NSc (to reach 45cr, if needed)
Must complete one course from the following: BIOL 130, BIOL
220, MATH 224, PHYS 123 (or PHYS 143)
Computer Programming (4-5cr)
$\star$ CSE 123 - Computer Programming III (4cr)
[pr: Recommended: CSE 122 or completion of Paul G. Allen School's Guided Self-Placement]
OR
$\star$ CSE 143 - Computer Programming II (5cr) [pr: CSE 142]

## ENGRUD Requirement Sheet - Key:

- = Placement Requirements
$\star$ = Pick one to satisfy placement requirements
Placement: July 1 at the end of the first year


## Departmental Core (21-23cr)

E E 201 - Computer Hardware Skills (1cr)
[pr: CSE 122, CSE 123, CSE 142, or CSE 143, any of which may be taken concurrently]

E E 215 - Fundamentals of Electrical Engineering (4cr)
[pr: MATH 126; MATH 207, may be concurrent; PHYS 122]
One of the following: E E 241 - Programming for Signal \& Info.
Processing App. (2cr) or CSE 163 - Intermediate Data
Programming (4cr)
[pr: either CSE 122, CSE 123, CSE 142, CSE 143, or CSE 160]

E E 242 - Signals, Systems, and Data I (5cr)
[pr: MATH 136 or MATH 207 or AMATH 351; E E 241 (may be concurrent) and either E E 241, which may be taken concurrently, or CSE 163]

E E 271 - Digital Circuits \& Systems (5cr)
[pr: Either CSE 121, CSE 122, CSE 123, CSE 142, or CSE 143]

E E 280 - Exploring Devices (4cr) [pr: PHYS 122]

Advanced Elec. \& Comp. Engr. Electives (36cr)
Professional Issues (1-5cr)
See adviser for list of approved courses.
Capstone (4-8cr)
See adviser for list of approved courses.
Additional 300 \& 400 level EE Courses (to reach

## 36cr)

Minimum of 20 cr at the 400 level
Optional Suggested Pathways:
These are groupings of courses within specified areas that students are encouraged to view as guides rather than strict requirements. Contact dept for list of current pathways.

## Free Electives (to reach 180 total credits)

Additional coursework in any subject area not used elsewhere in degree.

## Total credits required for graduation: 180 cr

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Electrical \& Computer Engineering Advising
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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: ENGR 101; MATH 124, MATH 125, MATH 126; CHEM 142, PHYS
121; English Composition; ENGRUD students who are interested in ECE should choose one of the following: CSE 121, CSE 122, CSE 123, PHYS 122, PHYS 123.

First Year

| Autumn Quarter | $\underline{\text { cr }}$ | Winter Quarter | $\underline{\text { cr }}$ | Spring Quarter | $\underline{\text { cr }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - MATH 124 - Calc w Analytic Geom I | 5 | - MATH 125 - Calc w Analytic Geom II | 5 | - MATH 126 - Calc w Analytic Geom III | 5 |
| - CHEM 142-General Chemistry | 5 | CSE 12X - Comp Programming | 4 | - PHYS 121 - Mechanics | 5 |
| - E-FIG: ENGR 101 \& GEN ST 199 | 2 | - English Composition | 5 | $\star$ CSE 12X - Comp Programming or | 4-5 |
| A\&H /SSc | 3 |  |  | A\&H / SSc / DIV |  |
| Qtr. Total: | 15 | Qtr. Total: | 14 | Qtr. Total: | 14 |

## Second Year



Third Year

| Autumn Quarter | cr | Winter Quarter | $\underline{\text { cr }}$ | Spring Quarter | cr |
| :---: | :---: | :---: | :---: | :---: | :---: |
| EE 271 - Digital Circuits and Systems | 5 | EE 398 - Professional Issues | 1 | Advanced ECE Elective | 5 |
| EE 201 - Computer HW Skills | 1 | Advanced ECE Elective | 5 | Advanced ECE Elective | 5 |
| IND E 315 or STAT 390 - Statistics | 3-4 | Advanced ECE Elective | 5 | A\&H / SSc | 5 |
| A\&H / SSc | 5 | A\&H / SSc | 5 |  |  |
| Qtr. Total: | 14 | Qtr. Total: | 16 | Qtr. Total: | 15 |

## Fourth Year

| Autumn Quarter | cr | Winter Quarter | cr | Spring Quarter | $\underline{\text { cr }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Advanced ECE Elective | 5 | Advanced ECE Elective | 5 | Advanced ECE Elective | 5 |
| Advanced ECE Elective | 5 | Capstone | 4 | Capstone | 4 |
| A\&H | 5 | Free Elective | 5 | Free Elective | 5 |
| Qtr. Total: | 15 | Qtr. Total: | 14 | Qtr. Total: | 14 |

- = Placement Requirement

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