Requirement Sheet Key

- = Upper-Division Admission Requirements

Mathematics (24 Credits)
- Math 124 (5cr) – Calculus I
- Math 125 (5cr) – Calculus II
- Math 126 (5cr) – Calculus III
- Math 307 (3cr) – Differential Equations [pr: Math 125]
- Math 308 (3cr) – Matrix Algebra [pr: Math 126]
One course from the following:
   IND E 315 (preferred) or Math/Stat 390
   (AMATH 351/352 may substitute for Math 307/308)

Mathematics (25 Credits)
- Chem 142 (5cr) – General Chemistry with lab
- Chem 152 (5cr) – General Chemistry with lab
- Phys 121 (5cr) – Mechanics with lab [pr: Math 124]
- Phys 122 (5cr) – Electro/Oscillatory with lab [pr: Math 125]
- Phys 123 (5cr) – Waves with lab [pr: Math 126]

Written & Oral Communications (12 Credits)
- English Comp (5cr) – English Composition
- ENGR 231 (3cr) – Intro to Technical Writing [pr: Engl. Comp]
- Additional Writing or Composition (4cr)

Visual, Literary & Performing Arts/Individuals & Society (VLPA/I&S) (24 Credits)
Minimum 10 credits in VLPA required.
Minimum 10 credits in I&S required.
Remaining 4 credits can be either VLPA or I&S.
(Econ 200/201 count toward both I&S and the Economics requirement below.)
Minimum 3 credits in Diversity (DIV) required (can overlap with VLPA/I&S credits).

Economics (CEE topic requirement) (4-5 Credits)
Econ 200 (5cr) or Econ 201 (5cr) or Ind E 250 (4cr)
*IndE 250 also counts toward Engineering Fundamentals.

Engineering Fundamentals (20 Credits)
- AA 210 (4cr) – Engineering Statics [pr: Math 126, Phys 121]
- ME 230 (4cr) – Kinematics & Dynamics [pr: AA 210]
- AMATH 301 (4cr) – Beg. Scientific Computing (Preferred),
  or CSE 142 (4 cr) – Computer Programming I
One course from the following list:
- ME 123 (4cr), MSE 170 (4cr), EE 215 (4cr), IND E 250 (4cr),
- AA 260 (4cr)

CEE 300-level Courses (40 Credits)
- CEE 307 (5cr) – Construction Engineering
- CEE 317 (5cr) – GeoSurveying
- CEE 327 (5cr) – Transportation Engineering
- CEE 337 (5cr) – Construction Materials
- CEE 347 (5cr) – Introduction to Fluid Mechanics
- CEE 357 (5cr) – Environmental Engineering
- CEE 367 (5cr) – Geotechnical Engineering
- CEE 377 (5cr) – Introduction to Structural Design

Professional Practice and Capstone (7 Credits)
- CEE 440 (2cr) – Professional Practice Studio
- Capstone Design Course (5cr)
  *Choice of CEE 441, 442, 444, or 445.

Civil Engineering Technical Electives (15 Credits)
Three “core” courses, each one selected from a different category of departmental emphasis. See “Core Courses” list on the CEE website. Complete additional 400-level CEE courses, not used to fulfill other requirements, for a total of 15 credits.

Upper-Division Engineering & Science Electives (12 Credits)
Any 400-level CEE courses not used elsewhere. Additionally, courses from outside the department may also apply if listed on the pre-approved Upper-Division course list (available on CEE website), or if approved by petition.

Total Credits Required for Graduation (180 Credits)

Early Admission Requirements
1. Early Admission is an option for Autumn Quarter Only.
2. Students must be enrolled at UW-Seattle.
3. Math 124, 125 & 126 or equivalent.
4. 10 credits of physical sciences courses plus the accompanying lab at the level of Chem 142, 152; Phys 121, 122, 123.
5. 5 credits of English Composition.
6. 15 credits must have been completed at UW.

Application Deadlines
Both early and upper division applications are due July 1st.

Last revised December 2016
## Civil and Environmental Engineering Sample Curriculum

**University of Washington**  
[www.ce.washington.edu](http://www.ce.washington.edu)

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### Freshman – Autumn Quarter
- Math 124 – Calculus I  
- Chem 142 – Chem & Lab I  
- English Composition  

Quarter Total 15

### Freshman – Winter Quarter
- Math 125 – Calculus II  
- Chem 152^ – Chem & Lab II  
- VLPA/I&S  
- CEE 100 – Introduction to CEE  

Quarter Total 16

### Freshman – Spring Quarter
- Math 126 – Calculus III  
- Phys 121 – Mechanics & Lab I  
- VLPA/I&S  

Quarter Total 15

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### Sophomore – Autumn Quarter
- AA 210 – Statics  
- Phys 122 – Electro & Lab I  
- ENGR 231 –Technical Writing  
- Math 308 – Matrix Algebra  

Quarter Total 15

### Sophomore – Winter Quarter
- Math 307 – Diff. Equations  
- CEE 220 – Mech. of Materials  
- Phys 123 – Waves & Lab I  
- INDE 250 – Engr Economics  

Quarter Total 16

### Sophomore – Spring Quarter
- ME 230 – Kinematics/Dynamics  
- INDE 315 – Engineering Stats  
- AMATH 301 – Sci. Computing  

Quarter Total 15

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### Junior – Autumn Quarter
- CEE 317 – GeoSurveying  
- CEE 337 – Construction Materials  
- CEE 377 – Intro to Structural Design  

Quarter Total 15

### Junior – Winter Quarter
- CEE 307 – Construction Engr.  
- CEE 347 – Intro to Fluid Mechanics  
- CEE 357 – Environmental Engr.  

Quarter Total 15

### Junior – Spring Quarter
- CEE 327 – Transportation Engr.  
- CEE 367 – Geotechnical Engr.  
- CEE 4xx or grad requirement or other elective.  

Quarter Total 15

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### Senior – Autumn Quarter
- CEE Technical Elective  
- CEE Technical Elective  
- CEE Technical Elective  
- Upper Div. ENGR & SCI Elective  
- Elective  

Quarter Total 14

### Senior – Winter Quarter
- CEE 440 – Design Practicum  
- CEE Technical Elective  
- CEE Technical Elective  
- VLPA/I&S  
- Elective  

Quarter Total 15

### Senior – Spring Quarter
- CEE Capstone  
- Upper Div. ENGR & SCI Elective  
- Elective  

Quarter Total 14

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**Bold face** courses are required for upper-division admission.  
^Chem 152 Recommended for students considering multiple engineering programs  
See CEE Website for list of Technical Electives.

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For more information contact:

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