## Requirement Sheet Key

- = Upper-Division Admission Requirements
* = Also counts towards Engineering Fundamentals

### Mathematics (24 Credits)
- MATH 124 (5cr) - Calculus I
- MATH 125 (5cr) - Calculus II
- MATH 126 (5cr) - Calculus III
- MATH 307 (3cr) - Differential Equations
- MATH 308 (3cr) - Matrix Algebra
  (AMATH 351/352 may substitute MATH 307/308)

One course from the following:
- IND E 315 (3cr) - Probability & Statistics for Engrs. (preferred)
- OR - MATH/STAT 390

### Natural Sciences (25 Credits)
- CHEM 142 (5cr) - General Chem I with Lab
- CHEM 152 (5cr) - General Chem II with Lab
- PHYS 121 (5cr) - Mechanics with Lab
- PHYS 122 (5cr) - Electro/Oscillatory with Lab
- PHYS 123 (5cr) - Waves with Lab

### Written & Oral Communications (8 Credits)
- English Comp (5cr) - English Composition
- ENGR 231 (3cr) - Intro to Technical Writing

### Visual, Literary & Performing Arts/Individuals & Society (VLPA/I&S) (24 Credits)
10 credits of VLPA
10 credits of I&S
4 credits of VLPA or I&S (ECON 200/201 count towards both I&S and Economics requirement below.)
3 credits of Diversity (DIV)
(DIV can overlap with VLPA or I&S)

### Engineering Fundamentals (20 Credits)
- AA 210 (4cr) - Statics
- CEE 220 (4cr) - Mechanics of Materials
- ME 230 (4cr) - Kinematics & Dynamics
- AMATH 301 (4cr) - Beg. Scientific Computing
  -OR- CSE 142 (4cr) - Computer Programming I
  (Note: AMATH 301 preferred)

One course from the following list:
- ME 123 (4cr), MSE 170 (4cr), EE 215 (4cr),
- IND E 250 (4cr), AA 260 (4cr)

### Economics (CE Topic Requirement) (4-5 Credits)
One of the following:
- ECON 200 (5cr) – Microeconomics; ECON 201 (5cr) – Macroeconomics; IND E 250* (4cr) - Fund. of Engineering Economy

### CE Core 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
- CEE 441 (5cr) - Transportation and Construction
- CEE 442 (5cr) - Structural Geotechnical
- CEE 444 (5cr) - Water Resources & Hydraulic Engr.
- CEE 445 (5cr) - Environmental Engineering

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

### Upper-Division Engr. and Science (12 Credits)
Any 400-level CEE courses not use elsewhere. If pre-approved, courses from outside the department may also apply or if approved by petition. List available on CEE website.

### 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 science courses plus 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
Early Admission and Upper-Division - July 1st

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Last revised October 2017
**This is a sample four-year plan. It is intended to provide a framework for students to reference as they create their own individual academic plan.**

<table>
<thead>
<tr>
<th>Freshman - Autumn Quarter</th>
<th>Freshman - Winter Quarter</th>
<th>Freshman - Spring Quarter</th>
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<tbody>
<tr>
<td>Math 124 - Calculus I</td>
<td>Math 125 - Calculus II</td>
<td>Math 126 - Calculus III</td>
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<tr>
<td>Chem 142 - Chem &amp; Lab I</td>
<td>^ Chem 152 - Chem &amp; Lab II</td>
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<td>English Composition</td>
<td>( \leq 100 ) - Introduction to VLPA/I&amp;S</td>
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<tbody>
<tr>
<td>MATH 308 - Matrix Algebra</td>
<td>CEE 220 - Mech. of Materials</td>
<td>ME 230 - Kinematics/Dynamics</td>
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<td>IND E 250 - Engr. Economy</td>
<td>ENGR 231 - Technical Writing</td>
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<td>CEE 317 - Geosurveying</td>
<td>CEE 347 - Intro to Fluid Mechanics</td>
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<td>CEE 307 - Construction Engineering</td>
<td>CEE 367 - Geotechnical Engineering</td>
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<td>CEE 377 - Intro. to Structural Design</td>
<td>CEE 357 - Environmental Engineering</td>
<td>CEE 4xx or grad requirement or other elective</td>
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<tr>
<td>CEE Technical Elective</td>
<td>CEE 440 - Design Practicum</td>
<td>CEE Capstone</td>
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**Bold face courses are required for upper-division admission.**

^ CHEM 152 - Recommended for students considering multiple engineering departments

See CE website for list of technical electives.

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For more information, contact:

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Last revised October 2017