Civil Engineering (Water Resources Track)  
128 credit hours total

<table>
<thead>
<tr>
<th>FALL</th>
<th>YEAR 1</th>
<th>SPRING</th>
<th>FALL</th>
<th>YEAR 2</th>
<th>SPRING</th>
<th>FALL</th>
<th>YEAR 3</th>
<th>SPRING</th>
<th>FALL</th>
<th>YEAR 4</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH 220 (4)</strong></td>
<td>Analytic Geometry and Calculus I</td>
<td>KSC-3</td>
<td><strong>MATH 221 (4)</strong></td>
<td>Analytic Geometry and Calculus II</td>
<td>PR: MATH 220 ≥ C</td>
<td><strong>CE 333 (3)</strong></td>
<td>Statics</td>
<td>PR: MATH 221, PHYS 213</td>
<td><strong>MATH 340 (4)</strong></td>
<td>Elementary Differential Equations</td>
<td>PR: MATH 221 ≥ C</td>
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<tr>
<td><strong>CHM 210 (4)</strong></td>
<td>Chemistry I</td>
<td>KSC-4</td>
<td><strong>PHYS 213 (5)</strong></td>
<td>Engineering Physics I</td>
<td>PR/CO: MATH 220</td>
<td><strong>CE 241 (3)</strong></td>
<td>Introduction to Civil Engineering Materials</td>
<td><strong>ME 512 (3)</strong></td>
<td>Dynamics</td>
<td>PR: PHYS 213, MATH 221</td>
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<tr>
<td><strong>ENGL 100 (3)</strong></td>
<td>Expository Writing I</td>
<td>KSC-2</td>
<td><strong>ENGL 200 (3)</strong></td>
<td>Expository Writing II</td>
<td>PR: MATH 150</td>
<td><strong>CE 533 (3)</strong></td>
<td>Mechanics of Materials</td>
<td>PR: CE 333 ≥ C or CE 530 ≥ C</td>
<td><strong>CE 351 (3)</strong></td>
<td>Incompressible Fluid Mechanics Laboratory</td>
<td>PR/CO: CE 533</td>
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<tr>
<td><strong>CE 202 (3)</strong></td>
<td>Civil Engineering Graphics</td>
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<td><strong>CE 212 (3)</strong></td>
<td>Elementary Surveying Engineering</td>
<td>PR: ENGL 100</td>
<td><strong>CE 534 (1)</strong></td>
<td>Mechanics of Materials</td>
<td>PR/CO: CE 533</td>
<td><strong>CE 501 (1)</strong></td>
<td>Project Economic Evaluation</td>
<td>PR: CE 531 ≥ C or ME 512 ≥ C</td>
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<tr>
<td><strong>DEN 160 (1)</strong></td>
<td>College of Engineering Orientation</td>
<td></td>
<td><strong>CE 301 (1)</strong></td>
<td>CE Problem Solving</td>
<td>PR: MATH 150</td>
<td><strong>CE 502 (3)</strong></td>
<td>Water Resources Engineering (or BAE 560)</td>
<td>PR: STAT 510, PHYS 213</td>
<td><strong>CE 550 (3)</strong></td>
<td>Project Management</td>
<td>PR: JR Standing</td>
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<tr>
<td><strong>DEN 161 (1)</strong></td>
<td>Engineering Problem Solving</td>
<td>PR/CO: MATH 150</td>
<td><strong>CE 015 (0)</strong></td>
<td>(16 credit hours)</td>
<td></td>
<td><strong>CE 015 (0)</strong></td>
<td>(16 credit hours)</td>
<td></td>
<td><strong>CE 015 (0)</strong></td>
<td>(16 credit hours)</td>
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<tr>
<td><strong>CE 015 (0)</strong></td>
<td>(16 credit hours)</td>
<td></td>
<td><strong>CE 015 (0)</strong></td>
<td>(16/17 credit hours)</td>
<td></td>
<td><strong>CE 015 (0)</strong></td>
<td>(17 credit hours)</td>
<td></td>
<td><strong>CE 015 (0)</strong></td>
<td>(15 credit hours)</td>
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</tbody>
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**KEY**
- **= Prerequisite for another course**
- **PR = Prerequisite requirement**
- **PR/CO = Prerequisite or concurrent requirement**
- **= Class applies for tracks**
- **= K-State Core (KSC) course**
- **= Only offered in the semester shown**
- **= See department approved electives**

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.
Civil Engineering Curriculum Notes

A GPA of at least 2.25 in the four CE Design elective courses used to satisfy their 12 hours of CE design electives in four areas of civil engineering. If more than 12 hours of CE Design electives, the best 12 hours that meet the requirement of four different design areas and the track requirements will be used to compute the CE Design elective GPA.

A resident cumulative GPA of 2.30 or better is required for a change of major from any engineering program to civil engineering.

Substitutions
BAE 560 can be substituted for CE 550.
DEN 325 can be substituted for PHILO 185.
CE 542 or CE 544 can be substituted for CE 572.
CE 752 can be substituted for CE 751.
CE 654, CE 751 or CE 752 can be replaced with another acceptable CE Track Elective

Electives
• Approved Civil Engineering electives and requirements are available at ce.k-state.edu/undergrad/student-handbooks.

• Math/Science electives are to be selected from the list approved by the department to satisfy the requirements.

• The Design elective courses selected should cover at least four different design areas: Environmental, Geotechnical, Structural, Transportation/Materials and Water Resources.

• CE Track electives are to be selected from the list approved by the department and in consultation with the student's faculty advisor to satisfy track requirements.

K-State Core
The K-State Core (KSC) is the university’s version of the systemwide general education framework established by the Kansas Board of Regents.

KSC requirement 1 – English (6 hours)
KSC requirement 2 – Communications (3 hours)
KSC requirement 3 – Math and Statistics (3 hours)
KSC requirement 4 – Natural and Physical Sciences (4-5 hours)
KSC requirement 5* – Social and Behavioral Sciences (6 hours)
KSC requirement 6* – Arts and Humanities (6 hours)
KSC requirement 7 – Institutional Electives (6 hours)

To view course lists for each requirement, visit k-state.edu/provost/kstate-core.

*Requires two courses from two different subject areas.