The following is the potential courses that could be taken to meet the Department’s requirements. Before taking a course you should discuss with your advisor to see if they meet your curriculum plan. If a student's advisor and supervisory committee wishes to vary from the course requirements, a formal petition must be submitted to the Graduate Studies Committee.

### Infrastructure Core

- **Materials***
  - CVEEN 6570 — Pavement Design
  - CVEEN 7560 — Adv Constr Mats

- **Structures***
  - CVEEN 6210 — Structural Anal II
  - CVEEN 6230, Steel Design II
  - CVEEN 6240, Masonry/Timber Des
  - CVEEN 6250 — Structural Dynamics
  - CVEEN 6310, Foundation Eng
  - CVEEN 6330, Soil Dynamics

- **Core Courses**
  - CVEEN 6225 - Concrete Science
  - CVEEN 6240 - Masonry/Timber Des
  - CVEEN 6250 - Structural Dynamics
  - CVEEN 6305 - Intro to Foundations
  - CVEEN 6340 — Adv Geotech Testing
  - CVEEN 6350 - Soil Improvement & Stabilization
  - CVEEN 6510 — Highway Design
  - CVEEN 7225 — Prestressed Concrete
  - CVEEN 7310 — Adv. Found. Eng
  - CVEEN 7520 — Transportation Safety

- **Geotechnics***
  - CVEEN 6200 — Structural Anal II
  - CVEEN 6210, Concrete Design II
  - CVEEN 6220, Steel Design II

- **Structures***
  - CVEEN 6300 — Structural Dynamics
  - CVEEN 6330 — Concrete Design II
  - CVEEN 6350 — Soil Improvement & Stabilization
  - CVEEN 6510 — Highway Design
  - CVEEN 7225 — Prestressed Concrete
  - CVEEN 7310 — Adv. Found. Eng
  - CVEEN 7520 — Transportation Safety

- **Environmental/Water**
  - CVEEN 6410 — Open-Channel Flow
  - CVEEN 6420 — Watershed Modeling
  - CVEEN 6430 — Stormwater Mgmt & Design
  - CVEEN 6440 — Water Distribution Sys Design
  - CVEEN 6450 — Snow Hydrology
  - CVEEN 6460 — Sustainable Urban Water Eng
  - CVEEN 6470 — Surface Water Quality
  - CVEEN 6480 — Hydrotopia
  - CVEEN 6600 — Solid & Hazard Water Mgt.
  - CVEEN 6605 — Water & Wastewater Treatment
  - CVEEN 6610 — Water Chem. & Lab Anal
  - CVEEN 6650 — Bioprocess Design
  - CVEEN 6920 — Special Topics
  - CVEEN 6930 — Independent Study
  - CVEEN 7410 — Flood Model. & Simulation
  - CVEEN 7430 — Adv. Subsurface Hydrologic Modeling
  - CVEEN 7450 — Carbon Capture & Storage
  - CVEEN 7610 — Advanced Bioprocess Systems
  - CVEEN 7620 — Physical & Chemical Treatment Processes for Water Quality Control
  - CVEEN 7630 — Wastewater Treatment and Microbiology Lab
  - CVEEN 7660 — Water Reuse
  - CVEEN 7920 — Special Topics
  - CVEEN 7930 — Adv Ind Study

*All students are required to take two courses, each from list in different areas.

To see a more detailed list of core courses please refer to the Infrastructure list.

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* Required by ALL Transportation Students.

* Special Topics courses that are not in Transportation area will need to be petitioned.

# Required by ALL Environmental Students.

* Special Topics courses that are not in Water/Envir area will need to be petitioned.

+ Independent Study courses will not count towards 7000 level requirement.
**Management Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVEEN 6810</td>
<td>Cost Engineering and Proposal Writing</td>
</tr>
<tr>
<td>CVEEN 6820</td>
<td>Project Scheduling</td>
</tr>
<tr>
<td>CVEEN 6830</td>
<td>Project Management and Contract Administration</td>
</tr>
<tr>
<td>CVEEN 6850</td>
<td>Engineering Law &amp; Project Management</td>
</tr>
<tr>
<td>ACCTG 6000</td>
<td>Financial Accounting&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>ACCTG 6001</td>
<td>Managerial Accounting&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>ACCTG 6101</td>
<td>Managerial Accounting&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>FINAN 6020</td>
<td>Financial Management&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>FINAN 6210</td>
<td>Cases in Financial Strategy&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>MGT 6051</td>
<td>Managing and Leading in Organizations&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>MGT 6052</td>
<td>Business Communications&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>MGT 6310</td>
<td>Business Law&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>MKTG 6090</td>
<td>Marketing Management&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
<tr>
<td>MKTG 6300</td>
<td>Marketing in the Information Age&lt;sup&gt;A&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>A</sup>Graduate business courses have an additional fee, please see the tuition rate schedule for more information. Other courses may be adopted subject to approval by the supervisory committee.