# CIV_ENV class schedule for the 2017-2018 Academic Year

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Fall 2017</th>
<th>Winter 2018</th>
<th>Spring 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV_ENV 195-0</td>
<td>UGRD – Experimental Courses / Selected Topics **Sec 20—FALL Intro to CEE (0 units)</td>
<td>5-5:50 W Corr</td>
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</tr>
<tr>
<td>CIV_ENV 203-0</td>
<td>Energy and the Environment Discussion section required—(cross listed with ENVR_SCI 203-0)</td>
<td>2-3:20 TTh 9:30-11:00 Th Blair</td>
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</tr>
<tr>
<td>CIV_ENV 205</td>
<td>Economics &amp; Finance for Engineers</td>
<td>4:00-5:20 TTH Durango-Cohen</td>
<td>3:30-4:50 MW Durango-Cohen</td>
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</tr>
</tbody>
</table>
| CIV_ENV 216-0 | Mechanics of Materials I Lab section required No P/N | 11-11:50 MTWF Alarcon 216 (enroll cap 50)  
Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 50) = 100 | 11-11:50 MTWF Rudnicki 216 (enroll cap 50)  
Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 50) = 100 | 11-11:50 MTWF Alarcon 216 enroll cap 50, Joint offering in Fall, Wtr, & Spg with BMD_ENG 271 (enroll cap 25) = 50 |
|             | Lab Section                                                                  | 1-2:50 T                   | 11-12:50 Th                 | 9-10:50 Th  |
|             | Lab Section                                                                  | 3-4:50 Th                  | 9-10:50 Th                 | 1 – 2:50 Th |
|             | Lab Section                                                                  | 3-4:50 T                   | 1-2:50 Th                  | 9-10:50 Th  |
| CIV_ENV 221-0 | Theory of Structures I Lab section required No P/N | 9-9:50 MWF Chou 9:30-10:50 Th |                             |             |
| CIV_ENV 250-0 | Introductory Soil Mechanics Lab section required No P/N | 10-10:50 MWF 6-8:50 W Buscarnera |                             |             |
| CIV_ENV 260-0 | Fund of Environmental Engrg Lab section required No P/N |                             | 9-9:50 MWF  
Packman Sec 60 lab 2-3:50 M  
Sec 61 lab 4:00-5:50 M |             |
<p>| CIV_ENV 295  | **Section 20 – Spring Structural Art                                          |                             |                             | 9:30-10:50 TTh Corr |
| CIV_ENV 295  | **Section 21 – Fall Biology Ecology &amp; Engineering                             | 4:00-4:50 MWF Hartmann     |                             |             |
| CIV_ENV 295  | **Section 22– Winter Engineering Possibilities: Decision Science in the Age of Smart Technologies |                             | 10:00-10:50 MWF Stathopoulos |             |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Prerequisites</th>
<th>Time</th>
<th>Instructor</th>
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</thead>
<tbody>
<tr>
<td>CIV_ENV 295</td>
<td><strong>Section 23 – Spring Geology for Engineers Cross listed with 358</strong></td>
<td></td>
<td>11:00-12:20 TTH Dowding</td>
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<td></td>
<td>Lab Section (AG40)</td>
<td>M 6:00-7:50</td>
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<tr>
<td></td>
<td>Lab Section (AG40)</td>
<td>Th 12:30-2:20</td>
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<tr>
<td>CIV_ENV 301-1</td>
<td>Professional Devel Seminar (CEE Seniors only).</td>
<td></td>
<td>4:30-5:20 TTh Chou</td>
<td></td>
</tr>
<tr>
<td>CIV_ENV 301-2</td>
<td>Professional Devel Seminar (CEE Seniors only).</td>
<td></td>
<td>3:00-3:50 M Corr</td>
<td></td>
</tr>
<tr>
<td>CIV_ENV 302-0</td>
<td>Engineering Law</td>
<td></td>
<td>3:30-5:20 TTh Krizek/Rockman/Croke</td>
<td></td>
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<tr>
<td>CIV_ENV 303-0</td>
<td>Environmental Law and Policy</td>
<td>5:00-7:50 Th Harley</td>
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<tr>
<td>CIV_ENV 304-0</td>
<td>Civil and Environmental Engrg Systems Analysis</td>
<td></td>
<td>9:30-10:50 TTh Durango-Cohen</td>
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<tr>
<td>CIV_ENV 306-0</td>
<td>Uncertainty Analysis In Civil Engrg No P/N</td>
<td>12-12:50 MWF 9-9:50 T Clark</td>
<td></td>
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<tr>
<td>CIV_ENV 317-0</td>
<td>Biogeochemistry</td>
<td></td>
<td>9:30-10:50 TTh Blair</td>
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<tr>
<td>CIV_ENV 319-0</td>
<td>Theory of Structures II Discussion Section required</td>
<td>12-1:50 MW 12:30-1:50 T Chou</td>
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<tr>
<td>CIV_ENV 320-0</td>
<td>Structural Analysis-Dynamics Computer Lab Section required</td>
<td>1-1:50 MWF 9:30-10:50 Tu Corr</td>
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<tr>
<td>CIV_ENV 321-0</td>
<td>Properties of Concrete</td>
<td></td>
<td>4-6 MW D'ambrosia (Winter or Spring)</td>
<td></td>
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<tr>
<td>CIV_ENV 323-0</td>
<td>Structural Steel Design Lab Section required</td>
<td></td>
<td>2:00-3:50 TTh Chou</td>
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<tr>
<td>CIV_ENV 325-0</td>
<td>Reinforced Concrete Discussion Section required</td>
<td></td>
<td>10-10:50 MWF 2-3:20 Th Corr</td>
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</tr>
<tr>
<td>CIV_ENV 327-0 (need 100)</td>
<td>Finite Element Methods in Mechanics (offered jointly with MECH_ENG 327)</td>
<td>12:30-1:50 TTh Liu</td>
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<tr>
<td>CIV_ENV 330-0</td>
<td>Construction Management Jr/Sr only-NO P/N</td>
<td>6-7:50 MW 4-5:50 F Tilghman/Krizek</td>
<td></td>
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<tr>
<td>CIV_ENV 332-0</td>
<td>Building Construction Estimating Prereq: CIV_ENV 503 in Winter Quarter, or permission of Krizek</td>
<td></td>
<td>4-5:50 MW Krizek/Tilghman/ Higgins</td>
<td></td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor</td>
<td>Time/Location</td>
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<tr>
<td>CIV_ENV 336-0</td>
<td>Project Scheduling</td>
<td></td>
<td>6:30-9:20 W</td>
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<tr>
<td></td>
<td>Permission number from <a href="mailto:ahadavi@northwestern.edu">ahadavi@northwestern.edu</a></td>
<td></td>
<td>Lab: M 5:00-6:00. T 3:00-4:00, 4:00-5:00, 5-5:50 W 9:30-10:30 Hadavi</td>
<td></td>
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<tr>
<td>CIV_ENV 340-0</td>
<td>Fluid Mechanics II</td>
<td></td>
<td>10-10:50 MWF</td>
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<td></td>
<td>Lab section required No P/N</td>
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<td>Clark</td>
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<td>Sec 60 lab 2-3:50 M (2nd 5 wks)</td>
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<td>Sec 61 lab 4:00-5:50 M (1st 5 wks)</td>
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<tr>
<td>CIV_ENV 355</td>
<td>Engineering Aspects of Groundwater Flow</td>
<td></td>
<td>12:30-1:50 MW</td>
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<tr>
<td>CIV_ENV 361-1</td>
<td>Environmental Microbiology</td>
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<td>Rossabi</td>
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<tr>
<td>CIV_ENV 361-2</td>
<td>Public and Environmental Health</td>
<td></td>
<td>11-12:20 TTh</td>
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<td>Marcelino</td>
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<tr>
<td>CIV_ENV 364-0</td>
<td>Environmental Engrg Apps II: Water</td>
<td></td>
<td>9-9:50 MWF</td>
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<td></td>
<td>Discussion section req No P/N</td>
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<td>Disc 1-1:50 Th Wells</td>
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<tr>
<td>CIV_ENV 365-0</td>
<td>Environmental Lab</td>
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<td>Sec 20 1-5:50 T</td>
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<td></td>
<td>Sec 20—Undergraduates</td>
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<td>Staff</td>
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<td></td>
<td>Sec 21—Graduates</td>
<td></td>
<td>Sec 21 1-5:50 Th Gaillard</td>
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<tr>
<td>CIV_ENV 367-0</td>
<td>Aquatic Chemistry</td>
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<td>10-10:50 MWF</td>
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<td>Discussion sec required No P/N</td>
<td></td>
<td>12:30-1:50 Th Gaillard</td>
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<tr>
<td>CIV_ENV 368-0</td>
<td>Sustainability: Issues and Actions, Near and Far</td>
<td></td>
<td>3:30-6:20 T</td>
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<td>Gray</td>
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<tr>
<td>CIV_ENV 371-0</td>
<td>Intro Transportation Planning and Analysis</td>
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<td>2-3:50 MW</td>
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<td>Discussion section required No P/N</td>
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<td>2-4 F Schofer</td>
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<tr>
<td>CIV_ENV 376-0</td>
<td>Transp Systems Operations</td>
<td></td>
<td>8-9:50 MW</td>
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<tr>
<td>CIV_ENV 382-0</td>
<td>Capstone Design</td>
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<td>12:30-1:50 TTh</td>
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<td>Discussion section required CivEnv Seniors only</td>
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<td>6-7:20 Th Disc</td>
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<td>Dowding/Corr/Rao</td>
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<tr>
<td>CIV_ENV 385-1</td>
<td>Architectural Engrg &amp; Design I: Fundamentals</td>
<td></td>
<td>4-5:50 TTh</td>
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<tr>
<td></td>
<td>(Engineering Jrs/Srs only)</td>
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<td>Cyphers/Booth</td>
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<td>(meets in TECH L441) Max enroll 15 with permission number</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
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<tr>
<td>CIV_ENV 385-2</td>
<td>Architectural Engrg &amp; Design II: Intermediate (Engineering Jrs/Srs only; AED I or permission of instructor) (meets in TECH L441) Max enroll 15 with permission number</td>
<td>Cyphers/Booth</td>
<td>4-5:50 TTh</td>
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<tr>
<td>CIV_ENV 385-3</td>
<td>Architectural Engrg &amp; Design III: Advanced (Engineering Jrs/Srs only; AED II or permission of instructor) (meets in TECH L441) Max enroll 15 with permission number</td>
<td>Cyphers/Booth</td>
<td>4-5:50 TTh</td>
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<tr>
<td>CIV_ENV 395-0</td>
<td>UGrad – Experimental Courses Selected Topics</td>
<td></td>
<td>4:00-6:50 W</td>
<td>Harley</td>
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<tr>
<td></td>
<td>** Section 23 – SPRING Energy Law &amp; Policy</td>
<td></td>
<td>3:30-4:50 TTh</td>
<td>Fleming</td>
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<tr>
<td></td>
<td>** Section 24 – SPRING Computational Forensics (offered jointly with MECH_ENG 395, 24)</td>
<td></td>
<td>2-5 Th</td>
<td>Packman</td>
</tr>
<tr>
<td></td>
<td>** Section 25 – SPRING Water in Israel and the Middle East</td>
<td></td>
<td>4- 5:50 MW</td>
<td>Staff</td>
</tr>
<tr>
<td></td>
<td>** Section 26 – FALL High Performance Architectural Design</td>
<td></td>
<td>MW 4-5:50</td>
<td>Schaebel/Mozina</td>
</tr>
<tr>
<td></td>
<td>**Section 27 – Winter</td>
<td></td>
<td>3:30-5:30 F</td>
<td>Gray</td>
</tr>
<tr>
<td></td>
<td>Community-based Design 1, 2 Must have permission of instructor and permission number. “K” grade in Winter Q (continuing). Spring results in conversion of Winter's &quot;K&quot; to a Letter Grade</td>
<td></td>
<td>6-7:30 T</td>
<td>Gray</td>
</tr>
<tr>
<td>CIV_ENV 398-1,2</td>
<td>Projects—UDRD-level INDIVIDUAL INSTRUCTOR SECTIONS / Projects are for Letter Grades only.</td>
<td></td>
<td>9:30-10:50 TTh</td>
<td>Cusatis</td>
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<tr>
<td>CIV_ENV 399-0</td>
<td>Projects—UDRD-level INDIVIDUAL INSTRUCTOR SECTIONS / Projects are for Letter Grades only.</td>
<td></td>
<td>3:30-5:30 F</td>
<td>Gray</td>
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<tr>
<td>CIV_ENV 410</td>
<td>Plates and Shells</td>
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<td>9:30-10:50 TTh</td>
<td>Cusatis</td>
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<tr>
<td>CIV_ENV 413</td>
<td>Experimental Solid Mechanics</td>
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<td>Unknown</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Time</td>
<td>Instructor</td>
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<tr>
<td>CIV_ENV 414-1</td>
<td>Mechanics of Composite Materials I</td>
<td>2-3:20 TTh</td>
<td>Daniel</td>
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<tr>
<td>CIV_ENV 414-2</td>
<td>Mechanics of Composite Materials II</td>
<td>2-3:20 TTh</td>
<td>Daniel</td>
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<tr>
<td>CIV_ENV 415-0</td>
<td>Theory of Elasticity</td>
<td>9:30-10:50 TTh</td>
<td>Akono</td>
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<tr>
<td>CIV_ENV 417-1</td>
<td>Mechanics of Continua I</td>
<td>10-10:50 MWF</td>
<td>Rudnicki</td>
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<tr>
<td>CIV_ENV 421-0</td>
<td>Prestressed Concrete Design</td>
<td>8-9:20 TTh</td>
<td>Cusatis</td>
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<tr>
<td>CIV_ENV 422</td>
<td>Limit Analysis of Structures</td>
<td>8:00-9:20 TTh</td>
<td>Cusatis</td>
<td></td>
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<tr>
<td>CIV_ENV 424</td>
<td>Stability of Structures</td>
<td>2-4 MWF</td>
<td>Bazant</td>
<td></td>
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<tr>
<td>CIV_ENV 426-1</td>
<td>Advanced Finite Element Methods 1 (offered jointly</td>
<td>3:30-4:50 TTh</td>
<td>Fleming</td>
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<tr>
<td>CIV_ENV 426-2</td>
<td>Advanced Finite Element Methods 2 (offered jointly</td>
<td>9:30-10:50 TTh</td>
<td>Liu</td>
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<tr>
<td>CIV_ENV 430-0</td>
<td>Cohesive Fracture and Scaling</td>
<td>1-2:50 MWF</td>
<td>Bazant</td>
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<td>CIV_ENV 435-0</td>
<td>Cost Engineering and Control</td>
<td>6:30-9:20 M</td>
<td>Hadavi</td>
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<tr>
<td>CIV_ENV 436-0</td>
<td>Constr Contracts/Dispute Resolution</td>
<td>6:30-9:20 M</td>
<td>Krizek/Eichorn</td>
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<tr>
<td>CIV_ENV 440-0</td>
<td>Environ Transport Processes</td>
<td>9:30-10:50 TTh</td>
<td>Packman</td>
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<tr>
<td>CIV_ENV 442-0</td>
<td>Processes in Environmental Biotechnology</td>
<td>2:00-3:50 MW</td>
<td>Wells</td>
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<tr>
<td>CIV_ENV 443</td>
<td>Microbial Ecology</td>
<td>TF 4:00-5:20</td>
<td>Wells</td>
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<tr>
<td>CIV_ENV 444-0</td>
<td>Physical/Chemical Processes In Environmental Control</td>
<td>2-3:50 MW</td>
<td>Clark</td>
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<tr>
<td>CIV_ENV 448-0</td>
<td>Biophysicochemical Processes in Environmental Systems</td>
<td>10-10:50 MWF</td>
<td>Gaillard</td>
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<tr>
<td>CIV_ENV 450-1</td>
<td>Soil Mechanics 1</td>
<td>8-9:50 MW</td>
<td>Finno</td>
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<tr>
<td>CIV_ENV 450-2</td>
<td>Soil Mechanics 2</td>
<td>5:00-8:00 M</td>
<td>Holman</td>
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<tr>
<td>CIV_ENV 450-3</td>
<td>Soil Mechanics 3</td>
<td>8-9:50 MW</td>
<td>Finno</td>
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<tr>
<td>CIV_ENV 452-0</td>
<td>Unsaturated Soil Mechanics</td>
<td>9:00-10:50 TTh</td>
<td>Buscarnera</td>
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<tr>
<td>Course</td>
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<td>Instructor(s)</td>
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<tr>
<td>CIV_ENV 454</td>
<td>Constitutive Models for Soils</td>
<td>12-1:50 TTh  Buscarnera</td>
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<tr>
<td>CIV_ENV 473</td>
<td>Survey Methods, data and analysis</td>
<td>10-11:50 MW  Stathopoulos</td>
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<tr>
<td>CIV_ENV 479-0</td>
<td>Transp Systems Planning and Management Discussion section required</td>
<td>2-3:50 MW  2-4 F  Schofer</td>
<td></td>
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<tr>
<td>CIV_ENV 480-1</td>
<td>Travel Demand Analysis and Forecasting 1</td>
<td>2-3:50 MW  Stathopoulos</td>
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<tr>
<td>CIV_ENV 480-2</td>
<td>Travel Demand Analysis and Forecasting 2</td>
<td>4-5:50 MW  Hani Mahmassani</td>
<td></td>
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<tr>
<td>CIV_ENV 482-0</td>
<td>Evaluation and Decision-making for Infrastructure Sys Discussion section required</td>
<td>2-3:50 TTh  2- 3:50 F  Schofer</td>
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<tr>
<td>CIV_ENV 483</td>
<td>InfrastrSysAnaly</td>
<td>9:30-10:50 TTh  DIS 10-10:50 F  Durango Cohen</td>
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<tr>
<td>CIV_ENV 484</td>
<td>Advanced Theories of Traffic Flow</td>
<td>Mahmassani  4:00-5:50 MW</td>
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<tr>
<td>CIV_ENV 495-0</td>
<td>Grad – Experimental Courses Selected Topics</td>
<td>MW 10:00-11:50 Hambleton</td>
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<td></td>
<td>** Sec 19 Spring Computational Geotechnics</td>
<td>**Sec 20—FALL Advanced Design of Steel Structures Prerequisite: CIV_ENV 323</td>
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<td>6:30-8:30 TTh  Jennifer Traut-Todaro/Max-Puchtel</td>
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<tr>
<td></td>
<td>**Sec 22 – SPRING Landfill Design, Operations and Closure</td>
<td>TBDJessie Varsho</td>
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<td></td>
<td>**Sec 25 – Spring Structures Capstone for STRMS students</td>
<td>W 6:00-7:50 Garo and Chou</td>
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<td></td>
<td>**Sec 27—SPRING Advanced Design of Reinforced Concrete Structures</td>
<td>4:00-5:50 MW  Mahmoud Kamara</td>
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<td>**Sec 28—SPRING Dynamic Deformation of Materials</td>
<td>3:30-4:50 TTh  Balogun</td>
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<td></td>
<td>**Sec 32 – Spring Data Analytics for TRN</td>
<td>9-12 Th  Chen</td>
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<td>**Sec – 36 Molecular Microbiology</td>
<td>1:00-2:20 TTh  Hartmann</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Instructor(s)</td>
<td>Time</td>
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<tr>
<td><strong>CIV_ENV 497</strong></td>
<td><strong>Sec 20--FALL (.50 unit) Special Topic</strong></td>
<td>TBA, Krizek</td>
<td>TBD</td>
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<tr>
<td>CIV_ENV 499-0</td>
<td>Projects – Graduate level INDIVIDUAL INSTRUCTOR SECTIONS / Permission of instructor &amp; permission number</td>
<td></td>
<td>3-5:50 W Krizek/Benhart</td>
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<tr>
<td>CIV_ENV 503-0</td>
<td>Materials and Methods In Construction Seminar -- <em>This is the Prereq if you are planning to take CIV_ENV 332 in Spring Quarter, or permission of Prof Krizek</em></td>
<td></td>
<td>6-8 W Chou and Garo</td>
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<tr>
<td>CIV_ENV 504-0</td>
<td>SEIM Capstone Pre-design Seminar (S/US grade) <em>This is the Prereq if you are planning to take “Structures Capstone for SEIM MS students” in the Spring</em></td>
<td></td>
<td>3-3:50 M Krizek/Hadavi</td>
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<tr>
<td>CIV_ENV 512-1,2,3</td>
<td>Structural Engineering and Mechanics Seminar</td>
<td>11:00-11:50 W Cusatis</td>
<td>11:00-11:50 W Cusatis</td>
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<tr>
<td>CIV_ENV 515-1,2</td>
<td>Geotechnics Seminar</td>
<td>12-12:50 W Dowding</td>
<td>12-12:50 W Dowding</td>
<td></td>
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<tr>
<td>CIV_ENV 516-1,2,3</td>
<td>Environmental Engrg and Science Seminar</td>
<td>2-2:50 F Gaillard</td>
<td>2-2:50 F Gaillard</td>
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<tr>
<td>CIV_ENV 517-1,2,3</td>
<td>Transportation Seminar</td>
<td>3:30-5 Th Stathopoulos</td>
<td>3:30-5 Th Stathopoulos</td>
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<tr>
<td>CIV_ENV 533-1,2,3</td>
<td>Project Management Seminar</td>
<td>3-3:50 M Krizek/Hadavi</td>
<td>3-3:50 M Krizek/Hadavi</td>
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<tr>
<td><strong>CIV_ENG 590-0</strong></td>
<td>Research Units (PhD) INDIVIDUAL INSTRUCTOR SECTIONS</td>
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<tr>
<td>GEN EN G 220-1,2</td>
<td>Analytic and Computer Graphics AutoCAD 1. Must have permission number.</td>
<td>6:30-8:50 W +1.5hr Lab/Tutorial Conway</td>
<td>6:30-8:50 W +1.5hr Lab/Tutorial Olson</td>
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</tbody>
</table>
2. Winter Q has a “K” (continuing) grade; Spring converts Winter’s “K” to a Pass/No Pass and a Spring Grade of Pass/No Pass.
3. Final Grade will be on a mandatory P/N only basis at the end of the 2-quarter period.