Civil Engineering - Joint (CIVJ)

Civil Engineering - Joint (CIVJ) Courses

CIVJ 5000 [0.5 credit] (CVG 5100)
Deep Foundations

CIVJ 5003 [0.5 credit]
Dam Engineering

CIVJ 5005 [0.5 credit]
Adsorption Separation Process

CIVJ 5006 [0.5 credit] (CVG 5106)
Site Improvements

CIVJ 5008 [0.5 credit] (CVG 5108)
Pile Dynamics

CIVJ 5102 [0.5 credit]
Behaviour of Soil and Rock

CIVJ 5104 [0.5 credit]
Soil Plasticity

CIVJ 5105 [0.5 credit] (CVG 5175)
Numerical Methods for Geotechnical Engineering

CIVJ 5106 [0.5 credit] (CVG 5161)
Mechanics of Unsaturated Soils

CIVJ 5107 [0.5 credit] (CVG 5177)
Offshore Geotechnique

CIVJ 5108 [0.5 credit] (CVG 5178)
Ice Mechanics

CIVJ 5109 [0.5 credit] (CVG 5109)
Geotechnical Hazards

CIVJ 5201 [0.5 credit] (CVG 5142)
Advanced Structural Dynamics

CIVJ 5202 [0.5 credit] (CVG 5143)
Advanced Structural Steel Design

CIVJ 5203 [0.5 credit] (CVG 5145)
Theory of Elasticity

CIVJ 5204 [0.5 credit] (CVG 5147)
Theory of Plates and Shells

CIVJ 5206 [0.5 credit] (CVG 5150)
Advanced Concrete Technology

CIVJ 5209 [0.5 credit] (CVG 5153)
Wind Engineering

CIVJ 5300 [0.5 credit] (CVG 5144)
Advanced Reinforced Concrete Design

CIVJ 5301 [0.5 credit] (CVG 5156)
Finite Element Methods I

CIVJ 5302 [0.5 credit] (CVG 5146)
Numerical Methods of Structural Analysis

CIVJ 5303 [0.5 credit] (CVG 5157)
Finite Element Methods II

CIVJ 5304 [0.5 credit] (CVG 5149)
Structural Stability

CIVJ 5305 [0.5 credit] (CVG 5148)
Prestressed Concrete Design

CIVJ 5306 [0.5 credit] (CVG 5155)
Earthquake Engineering

CIVJ 5307 [0.5 credit] (CVG 5158)
Elements of Bridge Engineering

CIVJ 5308 [0.5 credit] (CVG 5154)
Random Vibrations

CIVJ 5309 [0.5 credit] (CVG 5159)
Long Span Structures

CIVJ 5310 [0.5 credit] (CVG 5311)
Bridge Design

CIVJ 5311 [0.5 credit] (CVG 5312)
Durability of Concrete Structures

CIVJ 5312 [0.5 credit] (CVG 5313)
Seismic Analysis and Design of Concrete Structures

CIVJ 5500 [0.5 credit]
Deep Foundations

CIVJ 5501 [0.5 credit] (CVG 5111)
Hydraulic Structures

CIVJ 5502 [0.5 credit] (CVG 5112)
Computational Hydrodynamics

CIVJ 5503 [0.5 credit] (CVG 5160)
Sediment Transport

CIVJ 5504 [0.5 credit] (CVG 5162)
River Hydraulics

CIVJ 5506 [0.5 credit] (CVG 5120)
Water Resources Systems

CIVJ 5508 [0.5 credit]
Groundwater and Seepage

CIVJ 5509 [0.5 credit] (CVG 5123)
Advanced Topics in Hydrology

CIVJ 5601 [0.5 credit] (CVG 5125)
Statistical Methods in Hydrology

CIVJ 5602 [0.5 credit] (CVG 5126)
Stochastic Hydrology
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVJ 5603</td>
<td>0.5</td>
<td>Hydrologic Systems Analysis</td>
</tr>
<tr>
<td>CIVJ 5604</td>
<td>0.5</td>
<td>Water Resources Planning and Policy</td>
</tr>
<tr>
<td>CIVJ 5605</td>
<td>0.5</td>
<td>Coastal Engineering</td>
</tr>
<tr>
<td>CIVJ 5606</td>
<td>0.5</td>
<td>River Engineering</td>
</tr>
<tr>
<td>CIVJ 5607</td>
<td>0.5</td>
<td>Irrigation and Drainage</td>
</tr>
<tr>
<td>CIVJ 5803</td>
<td>0.5</td>
<td>Computational Hydraulics</td>
</tr>
<tr>
<td>CIVJ 5901</td>
<td>0.5</td>
<td>Unit Op of Water Treatment</td>
</tr>
<tr>
<td>CIVJ 5904</td>
<td>0.5</td>
<td>Water and Wastewater Labs</td>
</tr>
<tr>
<td>CIVJ 5905</td>
<td>0.5</td>
<td>Water and Wastewater Proc</td>
</tr>
<tr>
<td>CIVJ 5906</td>
<td>0.5</td>
<td>Solid Waste Disposal</td>
</tr>
<tr>
<td>CIVJ 5907</td>
<td>0.5</td>
<td>Chemistry of Enviro Engin</td>
</tr>
<tr>
<td>CIVJ 6000</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6001</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6002</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6003</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6004</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6005</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6006</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6007</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6008</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6009</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6010</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6011</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6012</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6013</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6014</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6015</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6016</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6017</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6018</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6019</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
<tr>
<td>CIVJ 6020</td>
<td>0.5</td>
<td>Special Topics in Civil Engineering</td>
</tr>
</tbody>
</table>

**Summer session**: some of the courses listed in this Calendar are offered during the summer. Hours and scheduling for summer session courses will differ significantly from those reported in the fall/winter Calendar. To determine the scheduling and hours for summer session classes, consult the class schedule at central.carleton.ca

Not all courses listed are offered in a given year. For an up-to-date statement of course offerings for the current session and to determine the term of offering, consult the class schedule at central.carleton.ca