

# Civil Engineering - Joint (CIVJ)

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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

CIVJ 5603 [0.5 credit] (CVG 5127)  
Hydrologic Systems Analysis

**CIVJ 5604 [0.5 credit] (CVG 5128)**  
**Water Resources Planning and Policy**

**CIVJ 5605 [0.5 credit] (CVG 5124)**  
**Coastal Engineering**

**CIVJ 5606 [0.5 credit] (CVG 5131)**  
**River Engineering**

**CIVJ 5607 [0.5 credit]**  
**Irrigation and Drainage**

**CIVJ 5803 [0.5 credit] (CVG 5119)**  
**Computational Hydraulics**

**CIVJ 5901 [0.5 credit]**  
**Unit Op of Water Treatment**

**CIVJ 5904 [0.5 credit]**  
**Water and Wastewater Labs**

**CIVJ 5905 [0.5 credit]**  
**Water and Wastewater Proc**

**CIVJ 5906 [0.5 credit]**  
**Solid Waste Disposal**

**CIVJ 5907 [0.5 credit]**  
**Chemistry of Enviro Engin**

**CIVJ 6000 [0.5 credit] (CVG 6300)**  
**Special Topics in Civil Engineering**

**CIVJ 6001 [0.5 credit] (CVG 6301)**  
**Special Topics in Civil Engineering**

**CIVJ 6002 [0.5 credit] (CVG 6302)**  
**Special Topics in Civil Engineering**

**CIVJ 6003 [0.5 credit] (CVG 6303)**  
**Special Topics in Civil Engineering**

**CIVJ 6004 [0.5 credit] (CVG 6304)**  
**Special Topics in Civil Engineering**

**CIVJ 6005 [0.5 credit] (CVG 6305)**  
**Special Topics in Civil Engineering**

**CIVJ 6006 [0.5 credit] (CVG 6306)**  
**Special Topics in Civil Engineering**

**CIVJ 6007 [0.5 credit] (CVG 6307)**  
**Special Topics in Civil Engineering**

**CIVJ 6008 [0.5 credit] (CVG 6308)**  
**Special Topics in Civil Engineering**

**CIVJ 6009 [0.5 credit] (CVG 6309)**  
**Special Topics in Civil Engineering**

**CIVJ 6010 [0.5 credit] (CVG 6310)**  
**Special Topics in Civil Engineering**

**CIVJ 6011 [0.5 credit] (CVG 6311)**  
**Special Topics in Civil Engineering**

**CIVJ 6012 [0.5 credit] (CVG 6312)**  
**Special Topics in Civil Engineering**

**CIVJ 6013 [0.5 credit] (CVG 6313)**  
**Special Topics in Civil Engineering**

**CIVJ 6014 [0.5 credit] (CVG 6314)**  
**Special Topics in Civil Engineering**

**CIVJ 6015 [0.5 credit] (CVG 6315)**  
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**CIVJ 6016 [0.5 credit] (CVG 6316)**  
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**CIVJ 6017 [0.5 credit] (CVG 6317)**  
**Special Topics in Civil Engineering**

**CIVJ 6018 [0.5 credit] (CVG 6318)**  
**Special Topics in Civil Engineering**

**CIVJ 6019 [0.5 credit] (CVG 6019)**  
**Special Topics in Civil Engineering**

**CIVJ 6020 [0.5 credit] (CVG 6320)**  
**Special Topics in Civil Engineering**