MS in Engineering and Public Policy
with Concentration in Infrastructure and Resilience with Graduate Certificate in Engineering Leadership

Students pursuing this degree must complete 16 Semester Hours of Gordon Program coursework and 20 Semester Hours of coursework in Engineering and Public Policy.

Plan of Study

All students will complete the following required Gordon Engineering Leadership coursework

**Gordon Engineering Leadership Program (16 Semester Hours Total)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENLR 5121</td>
<td>Engineering Leadership 1</td>
<td>2</td>
</tr>
<tr>
<td>ENLR 5122</td>
<td>Engineering Leadership 2</td>
<td>2</td>
</tr>
<tr>
<td>ENLR 5131</td>
<td>Scientific Principles of Engineering 1</td>
<td>2</td>
</tr>
<tr>
<td>ENLR 5132</td>
<td>Scientific Principles of Engineering 2</td>
<td>2</td>
</tr>
<tr>
<td>ENLR 7440</td>
<td>Engineering Leadership Challenge Project 1</td>
<td>4</td>
</tr>
<tr>
<td>ENLR 7442</td>
<td>Engineering Leadership Challenge Project 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Students will also complete coursework listed below

**Infrastructure Resilience**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 7110</td>
<td>Critical Infrastructure Resilience</td>
<td>4</td>
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</table>
Environmental Systems Modeling (Complete 4 semester hours from the following)
CIVE 5275  Life Cycle Assessment of Materials, Products, and Infrastructure  4
CIVE 5261  Dynamic Modeling for Environmental Investment and Policy Making
CIVE 5280  Remote Sensing of the Environment
CIVE 7388  Special Topics in Civil Engineering (Agent-Based Modeling)
CIVE 7392  Special Topics in Environmental Engineering (Agent-Based Modeling)

Economics (Complete 4 semester hours from the following)
ECON 7210  Applied Microeconomic Policy Analysis  4
LPSC 6313  Economic Analysis for Law, Policy, and Planning

Public Policy and Analysis (Complete 4 semester hours from the following)
LPSC 7311  Strategizing Public Policy  4
PPUA 6506  Techniques of Policy Analysis
PPUA 6509  Techniques of Program Evaluation

Statistics (Complete 4 semester hours from the following)
CIVE 7100  Applied Time Series and Spatial Statistics  4
IE 6200  Engineering Probability and Statistics
IE 7280  Statistical Methods in Engineering
LPSC 7215  Advanced Quantitative Techniques

Contact
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