Civil Engineering Infrastructure Technology

For Students starting the Program in September 2017

**REQUIRED**

- CIV TECH 4BC3 BUILDING SCIENCE
- CIV TECH 4MH3 HYDRAULIC ENGINEERING
- CIV TECH 4WT3 MUNICIPAL ENGINEERING

**ELECTIVE**

- CIV TECH 4UM3 ASSET MANAGEMENT (GEN TECH 3EE3 – Engineering Economics Prerequisite)
- CIV TECH 4LU3 ADVANCED LAND USE PLANNING (GEN TECH 4SE3 – Tech. Ethics & Sustain. Prerequisite)
- CIV TECH 4BD3 BRIDGE DESIGN, MAINTENANCE AND REPAIR
- CIV TECH 4ED3 SENIOR ENGINEERING DESIGN PROJECT

**ASSET MANAGEMENT**
- GEN TECH 3EE3 – Engineering Economics

**ADVANCED LAND USE PLANNING**

**BUILDING SCIENCE**
- ENG TECH 3MA3 MATHEMATICS V
- ENG TECH 4MA3 ADVANCED MATHEMATICS

**MECHANICS OF FLUIDS**
- ENG TECH 4TF3 MECHANICS OF FLUIDS
- ENG TECH 4FA3 FINITE ELEMENT ANALYSIS

**HYDRAULIC ENGINEERING**
- ENG TECH 3ST3 PROBABILITY & STATISTICS
- ENG TECH 3TP3 TRANSPORTATION PLANNING AND MODELLING

**MUNICIPAL ENGINEERING**
- ENG TECH 4MH3 HYDRAULIC ENGINEERING
- ENG TECH 4FA3 FINITE ELEMENT ANALYSIS

**STRUCTURAL DESIGN**
- ENG TECH 3ML3 STRENGTH OF MATERIALS
- ENG TECH 3SA3 STRUCTURAL ANALYSIS
- CIV TECH 3SA3 STRUCTURAL ANALYSIS
- CIV TECH 4SD3 STRUCTURAL STEEL DESIGN

**REINFORCED CONCRETE & MASONRY DESIGN**
- ENG TECH 3PM3 PAVEMENT MANAGEMENT
- CIV TECH 3PM3 PAVEMENT MANAGEMENT
- CIV TECH 4RC3 REINFORCED CONCRETE & MASONRY DESIGN

**FOUNDATION DESIGN**
- ENG TECH 3GE3 GEOTECHNICAL MATERIALS AND ANALYSIS
- CIV TECH 3GE3 GEOTECHNICAL MATERIALS AND ANALYSIS
- CIV TECH 3GT3 GEOTECHNICAL DESIGN
- CIV TECH 4GT3 GEOTECHNICAL DESIGN
- CIV TECH 4FR3 FOUNDATION DESIGN

**FINITE ELEMENT ANALYSIS**
- ENG TECH 4MA3 ADVANCED MATHEMATICS
## Civil Engineering Infrastructure Technology

<table>
<thead>
<tr>
<th>Required General Technology Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN TECH 3EE3</td>
</tr>
<tr>
<td>GEN TECH 4SE3</td>
</tr>
<tr>
<td>GEN TECH 3FS3</td>
</tr>
<tr>
<td>GEN TECH 3MP3</td>
</tr>
<tr>
<td>GEN TECH 4PM3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective General Technology Courses (choose 2 of the following 7 courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEN TECH 3DM3</td>
</tr>
<tr>
<td>GEN TECH 3EN3</td>
</tr>
<tr>
<td>GEN TECH 3TC3</td>
</tr>
<tr>
<td>GEN TECH 4EM3</td>
</tr>
<tr>
<td>GEN TECH 4LM3</td>
</tr>
<tr>
<td>GEN TECH 4SF3</td>
</tr>
<tr>
<td>GEN TECH 4ST3</td>
</tr>
</tbody>
</table>