### M.S. in Environmental Engineering

**Degree Requirements**

Students who lack appropriate background are asked to make up deficiencies by taking a program of bridge courses, including any prerequisites, that is designed in consultation with graduate advisors. See the [undergraduate catalog](#) for description of bridge courses.

The program comprises 30 credits of required and elective courses. The student consults the graduate advisor to plan and maintain an individualized and cohesive sequence of courses.

Students receiving financial aid at any point in their studies must complete 6 credits of ENE 701 Master's Thesis. Any students are able to substitute Master’s thesis in their program.

**M.S. in Environmental Engineering**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CE 320</td>
<td>Fluid Mechanics</td>
<td>4</td>
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<tr>
<td>CE 321</td>
<td>Water Resources Engineering</td>
<td>3</td>
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<tr>
<td>CE 322</td>
<td>Hydraulic Engineering</td>
<td>3</td>
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<tr>
<td>CE 501</td>
<td>Introduction to Soil Behavior</td>
<td>3</td>
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<tr>
<td>CHEM 126</td>
<td>General Chemistry II</td>
<td>3</td>
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<tr>
<td>CS 101</td>
<td>Computer Programming and Problem Solving</td>
<td>3</td>
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<tr>
<td>MATH 222</td>
<td>Differential Equations</td>
<td>4</td>
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<td>MECH 234</td>
<td>Engineering Mechanics</td>
<td>2</td>
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<td>MECH 236</td>
<td>Dynamics</td>
<td>2</td>
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<td>Total Credits</td>
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<th>Credits</th>
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<tbody>
<tr>
<td>ENE 663</td>
<td>Water Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>ENE 660</td>
<td>Introduction to Solid and Hazardous Waste Problems</td>
<td>3</td>
</tr>
<tr>
<td>ENE 661</td>
<td>Environmental Microbiology</td>
<td>3</td>
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<tr>
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<td>Graduate mathematics or computer science course approved by graduate advisor</td>
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**Electives**

Select six of the following: 18

| CE 602 | Geographic Information System           |         |
| CE 605 | Research Methods in Remote Sensing      |         |
| CE 618 | Applied Hydrogeology                    |         |
| CE 620 | Open Channel Flow                       |         |
| CE 621 | Hydrology                               |         |
| CE 623 | Groundwater Hydrology                   |         |
| CE 647 | Geotechnical Aspects of Solid Waste     |         |
| CE 702 | Special Topics in Civil Engineering     |         |
| ENE 662 | Site Remediation                       |         |
| ENE 664 | Physical and Chemical Treatment         |         |
| ENE 665 | Biological Treatment                   |         |
| ENE 666 | Analysis of Receiving Waters            |         |
| ENE 671 | Environmental Impact Analysis           |         |
| ENE 672 | Stormwater Management                   |         |
| ENE 700 | Master's Project                        |         |
| ENE 702 | Special Topics in Environmental Engineering |   |
| ENE 720 | Environmental Chemodynamics             |         |

**Total Credits** 30