### Core Courses

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Title</th>
<th>Semester Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV 561</td>
<td>Chemistry for Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV 562</td>
<td>Hazardous Waste Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV 660</td>
<td>Physiochemical Processes in Water and Wastewater</td>
<td>3</td>
</tr>
<tr>
<td>CIV 661</td>
<td>Biological Processes in Wastewater Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

### Elective Courses

- CIV 520 Advanced Engineering Analysis I. (3 Hours)
- CIV 521 Advanced Engineering Analysis II. (3 Hours)
- CIV 550 Engineering Hydrology (3 Hours)
- CIV 551 Advanced Fluid Mechanics (3 Hours)
- CIV 552 GIS Applications in Civil and Environmental Engineering (3 Hours)
- CIV 560 Environmental Engineering II (3 Hours)
- CIV 563 Microbiology for Environmental Engineering (3 Hours)
- CIV 564 Surface Water (3 Hours)
- CIV 565 Wetland Management for Environmental Engineering (3 Hours)
- CIV 566 Air Pollution and Control (3 Hours)
- CIV 567 Environmental Remediation (3 hours)
- CIV 568 Land Disposal of Waste (3 Hours)
- CIV 569 Environmental Systems Modeling (3 Hours)
- CIV 571 Principles of Geoenvironmental Engineering (3 Hours)
- CIV 573 Environmental Geology for Engineers. (3 Hours)
- CIV 574 Engineering Hydrogeology. (3 Hours)
- CIV 575 Applied Geological Engineering. (3 Hours)
- CIV 631 Linear Theory of Ocean Waves. (3 Hours)
- CIV 631L Linear Theory of Ocean Waves' Laboratory. (1 Hour)
- CIV 632 Tides and Long Waves. (3 Hours)
- CIV 650 Small Watershed Hydrology (3 Hours)
- CIV 652 Hydraulic Engineering Design (3 Hours)
- CIV 653 Advanced Design of Hydraulic Structures (3 Hours)
- CIV 663 Design of Environmental Engineering Facilities (3 hours)
- CIV 664 Limnology for Environmental Engineering (3 Hours)
- CIV 665 Environmental Law (3 Hours)
- CIV 666 Advanced Waste Treatment Processes in Environmental Engineering (3 Hours)
- CIV 667 Biological Process Engineering (3 Hours)
- CIV 668 Bioenvironmental Engineering (3 Hours)
- CIV 669 Advanced Topics in Environmental Engineering (Variable 1-4 Hours)
- CIV 695 Scientific Writing Seminar (1 Hour)
- CIV 696 Seminar (1 Hour)
- CIV 697 Internship (Variable 1-3 Hours)
- CIV 698 Independent Study (Variable 1-3 Hours)
- CIV 699 Thesis Research (Variable 1-6 Hours)