



College of Engineering, Technology, and Architecture  
**UNIVERSITY OF HARTFORD**

Civil, Environmental, and Biomedical Engineering Department  
**MASTER OF ENGINEERING, Civil Engineering**

The graduate program stresses applied research for the practicing engineer. The goal is to prepare you to solve more sophisticated design problems that will help you advance in your engineering Career. Small classes promote interaction with the faculty and keep you up to date with the most recent technology. This is combined with research projects that offer you the opportunity to become an expert in your chosen field.

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Course Name	Credit Hours
<b>Core Courses</b>	
CE 500 Advanced Mechanics of Materials	3
CE 501 Advanced Structural Design	3
CE 507 Finite Element Analysis	3
CE 530 Geotechnical Engineering II	3
CE 601 Structural Dynamics	3
<b>Mathematics</b>	
M 515 Methods of Applied Mathematics I	3
<b>Engineering Management</b>	
EM 601 Engineering Program Management	3
<b>Independent Studies</b>	
CE 600 Independent Studies in Civil Engineering	3
<b>Electives (choose 2 courses)</b>	
CE 502 Groundwater Hydrology	
CE 503 Geographical Information Systems in Practice	
CE 523 Engineering Hydrology	
CE 600 Independent Study in Civil Engineering	
CE 603 Theory of Elasticity	
CE 604 Theory of Plates and Shells	
M 516 Methods of Applied Mathematics II	
M 517 Applied Engineering Statistics	
EM 600 Engineering and the Corporation	
Any approved graduate course	
<b>PROGRAM TOTALS:</b>	<b>30</b>

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**Research Topics and Projects**

Remote Sensing  
Geographical Information Systems  
Surface Water Modeling  
Watershed Modeling  
Aeration and Mass Transfer  
Analysis and Design of Structures

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