

Master of Civil Engineering

★ Courses are subject to change.

Course Title	Credit Hours
Materials for Civil Engineers	3
Instrumentation, Monitoring and Condition Assessment of Civil Infrastructure	3
Environmental Impact Assessment	3
Urban Infrastructure Systems Management	3
Project Management for Construction	3
Risk Analysis	3
Technical Electives	3
Ground Improvement	3
Advanced Foundation Design	3
Excavation Support Systems	3
Thesis	6
Required Credit to Complete	36



Bachelor of Civil Engineering

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Course Title	Credit Hours
Writing and Inquiry in Academic Contexts	3
College Algebra	3
Introduction to Computer Science Principles	3
The Arts and Society: Dance	3
Global and Intercultural Connections	3
Literature and Culture	3
General Chemistry	3
General Chemistry I Laboratory	1
Calculus I	3
Calculus II	3
Calculus III	3
Differential Equations	3
Physics for Science and Engineering I	3
Physics for Science and Engineering I Laboratory	1
Probability and Statistics for Engineers	3
General Chemistry II	3
General Chemistry II Laboratory	1
Principles of Biology I	3
Introduction to Engineering Practices and Principles I	2
Introduction to Engineering Practices and Principles II	2
Engineering Economic Analysis	3
Surveying and Technical Drawing	3



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Course Title	Credit Hours
Design Project Lab	2
Construction Engineering	3
Structural Analysis	3
Introduction to Environmental Engineering	3
Hydraulics and Hydrology	3
Transportation Laboratory	2
Environmental Laboratory	2
Transportation Engineering I	3
Systems and Design	3
Structural Materials I Laboratory	2
Geotechnical Laboratory	2
Geotechnical Engineering	3
Multidisciplinary Professional Development	1
Engineering Mechanics I	3
Introduction to Solid Mechanics	3
Water Treatment Engineering	3
Geotechnical Engineering II	3
Basic Electrical Engineering I	3
Structural Steel Design I	3
Managerial Accounting and the Decision Process	3
Microbiology	3
Business Law	3
Business Communications	3
Required Credit to Complete	120

