



MS in Civil Engineering with Graduate Certificate in Engineering Leadership

Total Semester Hours Required: 32 - 33 (depends on discipline)

Students pursuing this degree must complete 16 Semester Hours of Gordon Program coursework and 16-17 Semester Hours of coursework in their Civil Engineering discipline (Construction Management, Environmental Engineering, Geotechnical / Geoenvironmental Engineering, Structural Engineering, or Transportation Engineering).

Please note that for some Civil Engineering disciplines, a petition will be required to count Gordon Program coursework in lieu of restricted electives. A GEL advisor can guide you through the process.

Plan of Study

All students will complete the following required Gordon Engineering Leadership coursework

Gordon Engineering Leadership Program (16 Semester Hours Total)

ENLR 5121	Engineering Leadership 1	2
ENLR 5122	Engineering Leadership 2	2
ENLR 5131	Scientific Principles of Engineering 1	2
ENLR 5132	Scientific Principles of Engineering 2	2
ENLR 7440	Engineering Leadership Challenge Project 1	4
ENLR 7442	Engineering Leadership Challenge Project 2	4

Students will also complete coursework for one of the five Civil Engineering disciplines

Construction Management (17 Semester Hours Total)

ACCT 6200	Financial Reporting and Managerial Decision Making 1	3
CIVE 7220	Construction Management	4
CIVE 7221	Construction Project Control and Organization	2
CIVE 7230	Legal Aspects of Civil Engineering	4
IE 6200	Engineering Probability and Statistics	4

Environmental Engineering (16 Semester Hours Total)

CIVE 7250	Environmental Chemistry	4
CIVE 7251	Environmental Biological Processes	4
CIVE 7260	Hydrology	4
Elective	Elective	4

Geotechnical / Geoenvironmental Engineering (16 Semester Hours Total)

CIVE 7301	Advanced Soil Mechanics	4
CIVE 7302	Advanced Foundation Engineering	4
Electives	Electives	8

Structural Engineering (16 Semester Hours Total)

CIVE 7330	Advanced Structural Analysis	4
CIVE 7331	Structural Dynamics	4
Electives	Restricted Electives	8

Transportation Engineering (16 Semester Hours Total)

CIVE 5373	Transportation Planning and Engineering	4
CIVE 5376	Traffic Engineering	4
IE 6200	Engineering Probability and Statistics	4
Electives	Restricted Electives	4

Contact

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