



# MS in Data Analytics Engineering with Graduate Certificate in Engineering Leadership

**Total Semester Hours Required: 32**

Students pursuing the MS in Data Analytics Engineering with Graduate Certificate in Engineering Leadership must complete 16 Semester Hours of Gordon Program coursework and 16 Semester Hours of required Data Analytics Engineering coursework.

Please refer to Mechanical Engineering home page for the most up-to-date course requirements and other program information.

## Plan of Study

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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

Data Analytics Engineering Coursework (16 Semester Hours Total)

Required core courses (8 Semester Hours)

IE 7275 Data Mining in Engineering	4
INFO 6210 Data Management and Database Design	4

Select two of the following courses in consultation with your academic advisor (8 Semester Hours)

IE 7280 Statistical Methods in Engineering	4
IE 6200 Engineering Probability and Statistics	4
OR 6205 Deterministic Operations Research	4
IE 5374 Special Topics in Industrial Engineering (Data Visualization Engineering)	4