

MASTER'S DEGREE IN ENVIRONMENTAL SCIENCE

Area of Concentration In:

ENVIRONMENTAL SIMULATION AND IMPACT ANALYSIS

This program is designed for a student who wants to prepare to do mathematical modeling and simulation of environmental systems. A recommended minimum background includes Introduction to Linear Algebra (MTH 222 or equivalent), Differential Equations (MTH 347 or equivalent), Matrix Algebra and Introduction to Fortran Programming or C⁺⁺.

Required Courses

An Introduction to Multivariate Statistical Analysis (STA 667)	3
or	
Analysis of Multivariate Business Data (DSC 547)	3
Simulation (SAN 57)	3
Sub-total of hours	9

Strongly Recommended (one required)

Regression Analysis (STA 563)	4
Analysis of Forecasting Systems (STA 583)	3
Or Business Forecasting (DSC 544)	3
SAN 351 - Simulation Based Analysis of Dynamic Systems can be taken for grad credit -	
Sub-total of hours	3-4

Electives (one required)

Optimization (MTH 532)	3
Proseminar on Public Policy Analysis (POL 666)	3
Solid Waste Management (IES 640)	3
Analysis of Systems Deterministic (SAN 602)	3
Analysis of Stochastic Systems (SAN 605)	3
Simulation of Business Systems (DSC 672)	3
Sub-total of hours	3-4

Total Hours 15-17

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