

MASTER OF SCIENCE IN CIVIL ENGINEERING
WATER RESOURCES ENGINEERING

At least 9 cr. required from:

CE 654 - Design of Groundwater Flow Systems
CE 751 - Hydraulics of Open Channels
CE 752 - Advanced Hydrology
CE 803 - Numerical and Analytic Techniques for Engineers

At least 6cr. required from:

CE 625 - Principles of Geoenvironmental Engineering
CE 725 - Seepage in Permeable Materials
CE 760 - Environmental Engineering Seminar
CE 762 - Water Treatment Processes
CE 766 - Wastewater Engineering: Biological Processes
CE 768 - Geoenvironmental Engineering Design
CE 861 - Environmental Engineering Chemistry
CE 863 - Water Supply and Wastewater Collection Systems
CE 864 - Unit Operations and Processes in Environmental Engineering
CE 866 - Advanced Wastewater Treatment
CE 970 - Advanced Topics in Environmental and Water Resources Engineering

CE Water Resources Electives:

CE 680 - Economics of Design and Construction
CE 728 - Advanced Geotechnical Design
CE 786 - Land Development for Civil Engineers and Planners
CE 790 - Problems in Civil Engineering
CE 816 - Selected Topics in Civil Engineering
CE 828 - Advanced Soil Mechanics
CE 916 - Advanced Topics in Civil Engineering

Additional Water Resources Electives:

AGRON 816 - Soil Physics
AGRON 820 - Plant Water Relations
AGRON 893 - Agricultural Simulation Modeling
AGRON 916 - Advanced Soil Physics

BAE 665 - Ecological Engineering Design
BAE 669 - Watershed Modeling
BAE 865 - Advanced Ecological Engineering Design
BAE 869 - Advanced Watershed Modeling
CHE 650 - Hazardous Waste Engineering Seminar
CHE 663 - Environmental and Ecological Risk Assessment
CHE 862 - Advanced Transport Phenomena I
CHE 867 - Advanced Transport Phenomena II
GEOG 508 - Geographic Information Systems I
GEOG 608 - Geographic Information Systems II
GEOG 725 - Geography of Water Resources
GEOG 740 - Fluvial Geomorphology
GEOL 611 - Hydrogeology
GEOL 711 - Water Resources Geochemistry
GEOL 870 - Groundwater Contaminant Remediation
ME 720 - Intermediate Fluid Mechanics
ME 831 - Boundary Layer Theory
STAT 704 - Analysis of Variance
STAT 705 - Regression and Correlation Analyses
STAT 716 - Nonparametric Statistics
STAT 880 - Time Series Analysis