

MASTER'S DEGREE IN ENVIRONMENTAL SCIENCE

Area of Concentration In:

WATER RESOURCES

It is assumed that those choosing a concentration in this specialty area will come into it with the desire to gain greater depth in the physical-chemical aspects of water resource problems. Those wishing to concentrate in the social-political-economic side of water resource allocation would be advised to select some other area of concentration such as Urban and Regional Planning or Policy Making and Administration.

Required Courses

Introduction to Hydrogeology (GLG 508)	3
Limnology (ZOO 563)	4
Hydrogeography (GEO 525)	3
Sub-total of hours	15-16

Recommended Electives (must take two)

Climatology (GEO 521)	2-3
Phycology (BOT 643)	3
Chemical Measurements (CHM 355, 356)	3,3
Advanced Analytical Chemistry (CHM 661)	2
Analytical Adsorption Spectrophotometry (CHM 663)	2
Aerial Photo Interpretation (GEO 547) (Summer)	4
Techniques and Applications of Remote Sensing (GEO 548)	3
Geology (591) Geochemistry of Natural Waters	3
Geomorphology (GLG 554/GEO 524)	3
Solid Waste Management (IES 640) (Spring)	3
Ichthyology (ZOO 507)	4
Environmental Law (IES 550) (Fall evening)	3
GIS Intro & Advanced Field Applications in Hydrogeology (GLG 599)	4
Groundwater flow modeling (GLG 528)	4
Contaminant Hydrogeology (GLG 582)	4
Geochemistry of Natural Waters (GLG 591)	3
Industrial Environmental Control (PPS 505)	2
Process Analysis (PPS 604)	3
Ecology of Lake Erie Wetlands	
Soil Geography (MPT 528)	4
Tropical Marine Ecology of the Bahamas, Florida Keys, and Everglades (GLG 513)	5
Watershed Management (GEO 526)	3

Total Hours 18-19

It is strongly recommended that students in this area of concentration take a summer field course, such courses are offered at Miami as well as Stone Lab.

Specialty Coordinators:

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