

# WMHS - WATER MGMT & HYDROL SCI

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## WMHS 601 Applications and Problems in Hydrological Sciences

**Credits 3. 3 Lecture Hours.** Examination of hydrologic processes affecting surface and groundwater resources; impact of climate, soils, vegetation, land-use practices and human effects on hydrologic processes; natural-scientific perspectives emphasized. **Prerequisite:** Graduate classification.

## WMHS 602 Contemporary Issues in Water Resources

**Credits 3. 3 Lecture Hours.** Examination of contemporary issues in water resource systems including water quantity, water quality, ecosystem sustainability and water supply; focus on economic, legal, political and social considerations, and alternatives in water resource systems. **Prerequisite:** Approval of instructor.

## WMHS 640/GEOL 640 Geochemistry of Natural Fresh Waters

**Credits 3. 3 Lecture Hours.** Chemistry of aqueous solutions; weathering/redox reactions and controls on fresh waters; natural and anthropogenic factors affecting major, minor, and trace elements in fresh waters; evaluation of fresh water composition; application of water-quality measurements to quantitative hydrology. **Cross Listing:** GEOL 640/WMHS 640.

## WMHS 681 Seminar

**Credit 1. 1 Other Hour.** Presentations on important developments and current research in hydrological sciences and water management; seminars presented by faculty, graduate students, visiting scholars and water professionals. May be repeated 3 times for credit. **Prerequisite:** Approval of instructor.

## WMHS 684 Professional Internship

**Credits 0-1. 0-1 Other Hours.** An on-the-job supervised experience program, conducted on an individual basis in the area of the student's specialization in water management and hydrological science. **Prerequisites:** Graduate classification or approval of instructor.

## WMHS 685 Directed Studies

**Credits 1 to 4. 1 to 4 Other Hours.** Special topics in water not within scope of thesis research and not covered by other formal courses. **Prerequisite:** Graduate classification and approval of instructor.

## WMHS 689 Special topics in...

**Credits 1 to 4. 1 to 4 Lecture Hours.** Selected topics in an identified area of water management or hydrological science. May be repeated for credit. **Prerequisite:** Approval of instructor.

## WMHS 691 Research

**Credits 1 to 23. 1 to 23 Other Hours.** Research toward thesis or dissertation.