

# Fundamentals of Hydrology

GEO 491-6 (3 credits)

Spring semester 2010

Mon-Wed-Fri 11:10-12:00 CHCB 333

Instructor: Marco Maneta ([marco.maneta@umontana.edu](mailto:marco.maneta@umontana.edu))



Here's your chance to learn what happens to the water when it rains. In this course we will explore the hydrologic processes that drive water in its eternal cycle between the atmosphere, the oceans and the land and why this cycle is so sensitive to environmental changes.

Students will assess how an impact on any stage of the cycle will propagate in the system with potential effects on all water users (humans and the environment). Students will also quantify fluxes and storage of water and energy and understand the physical mechanisms that trigger the exchange processes.

In addition, along with the main goals of the course students will improve their quantitative skills and their capacity to retrieve and read professional literature and independently acquire and apply technical knowledge.