MAJOR IN WATERSHED SCIENCE AND SUSTAINABILITY, WATERSHED SUSTAINABILITY CONCENTRATION

In the Watershed Sustainability concentration, students will focus on how human systems interact with the physical, chemical, and biological processes in watersheds. They will combine foundational science courses with background in sociology and economics, in preparation for upper division courses on water resources, water economics, and sustainability.

Learning Objectives

Upon successful completion, students will be able to:

1. Articulate core concepts in watershed science and sustainability including climate processes, surface and subsurface hydrology, water quality, human uses of water, and sustainable water management.
2. Describe how social, institutional, governance, and economic factors affect allocation and management of water resources
3. Analyze, and interpret meteorological, hydrological, and water quality, water use and management data.
4. Analyze watershed problems and sustainability challenges using geospatial data, field observations, sensor data, and watershed models.
5. Demonstrate strong critical thinking, writing, and oral communication skills.