

WATER SCIENCE (WATS)

WATS 881K Stream and River Ecology**Crosslisted with:** BIOS 481, NRES 481K, NRES 881K**Prerequisites:** NRES 222 or equivalent**Description:** Fundamental physical drivers operating in stream and river ecosystems and how those vary in space and time. Major classes of organisms associated with stream ecosystems and their functional roles. Fundamental controls on biotic diversity in stream and river ecosystems and its variance. Major aspects of stream ecosystem function including energy flow and nutrient cycling. Ecosystem services provided by stream and river ecosystems and causes and consequences of human impacts on streams and rivers. Underlying principles of bioassessment and current methods of stream restoration.**Credit Hours:** 4**Max credits per semester:** 4**Max credits per degree:** 4**Grading Option:** Graded**Course and Laboratory Fee:** \$20**Experiential Learning:** Fieldwork