



School of Natural Resources  
and the Environment

Seminar Series: Spring 2024

**APPLYING ECOLOGICAL STOICHIOMETRY TO  
MANAGE FRESHWATER ECOSYSTEMS**

**SPEAKERS:** Eric Moody,  
Middlebury College

**DATE:** Wednesday, April 3rd

**TIME:** 3:00 - 4:00 pm

**LOCATION:** ENR2 S210 & [Zoom](#)

**ABSTRACT:**

Population management requires an understanding of the interactions between species of interest and the ecosystems they inhabit. Using the common currency of individual chemical elements and energy, ecological stoichiometry provides a framework to investigate these interactions.

In this seminar, I will describe how ecological stoichiometry can be applied to freshwater conservation and provide two case studies from my research. First, I will talk about how variation in nutrient availability across habitats affects production of a threatened desert fish, the humpback chub (*Gila cypha*). I will also discuss how urbanization affects water quality in streams in Vermont, where chloride pollution affects the energy demands of sensitive benthic invertebrates. Finally, I will discuss ideas for how ecological stoichiometry could more broadly be integrated into conservation biology and natural resource management.

