

# CEVE 442: Environmental Process Engineering

**MWF, 1– 1:50PM;** Instructor: Lauren Stadler ([lauren.stadler@rice.edu](mailto:lauren.stadler@rice.edu))

The goal of this course is to equip students with the fundamental knowledge and design skills necessary to apply principles of physical, chemical, and biological processes to water and wastewater treatment systems. We will cover operations and reactor configurations commonly used for water quality control; analysis and design of specific water and wastewater treatment processes and operations; and relevant economic and legislative constraints and requirements. Specific focus will be placed on resource recovery from wastewater, and low-energy drinking water treatment processes. Concepts from quantitative sustainable design will be introduced and applied to open-ended design problems.



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