



Spring 2026 Course Announcement

CVEN-5333 Surface Water Hydrology



<https://www.thelanddevelopmentsite.com/what-is-hydrology-in-civil-engineering/>

What is this class about?

The water cycle is the heart of hydrologic engineering and the driving force behind many environmental processes. In this course, we will study the movement of water through the atmosphere, the surface, and underground, allowing us to manage the ancient problems of floods and droughts and the modern problem of pollution. The course will also introduce HEC-HMS and CUHP, two standard modeling packages.

Who should take this class?

Graduate students in Hydrologic, Environmental, and Sustainability Engineering (HESE) and Environmental Sciences—Water Systems Specialization. Hydrology is part of the Civil Fundamentals of Engineering (FE) exam, so this course is also a technical elective for civil engineering bachelor's students with an A or B in CVEN-3313 Fluid Mechanics.

Instructor: David C. Mays, P.E., Ph.D. (david.mays@ucdenver.edu)

Schedule: Tuesday/Thursday 5:00—6:15 pm starting Tuesday 1/20/2026

Text: Bedient et al. (2019), *Hydrology and Floodplain Analysis*, 6th edition, Pearson, ISBN 9780134751979.