

COURSE DETAIL

HYDROLOGY

Country

Australia

Host Institution

University of Sydney

Program(s)

University of Sydney

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

136

UCEAP Course Suffix**UCEAP Official Title**

HYDROLOGY

UCEAP Transcript Title

HYDROLOGY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course gives a general introduction to water resources, how these are linked the hydrological processes, and how engineering plays a role in the management of water resources. It covers the hydrologic cycle of water as a whole and its specific components including: geophysical flows of water throughout the environment, dynamics of precipitation formations, transformations into runoff, reservoir and lake dynamics, stream flow discharge, surface runoff assessment, calculation of peak flows, the hydrograph theory, ground water flows, aquifers dynamics, concept of water quality and water treatment methods and units. The topics mentioned will be covered in both qualitative and quantitative aspects. Use will be made of essential concepts of energy, mass and momentum conservation.

Language(s) of Instruction

English

Host Institution Course Number

CIVL3614

Host Institution Course Title

HYDROLOGY

Host Institution Course Details

<https://www.sydney.edu.au/units/CIVL3614/2025-S2C-ND-CC>

Host Institution Campus

Camperdown / Darlington

Host Institution Faculty

Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed

2025-2026

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