

COURSE DETAIL

HYDROLOGY

Country

France

Host Institution

University of Lyon 2

Program(s)

University of Lyon

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Geography

UCEAP Course Number

109

UCEAP Course Suffix**UCEAP Official Title**

HYDROLOGY

UCEAP Transcript Title

HYDROLOGY

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

The objectives of this course are to understand theoretical notions in continental hydrology, which constitute basic knowledge in physical geography. The course discusses the hydrological functioning of rivers and their watersheds. After presenting the mechanisms that take place in the natural state, the course addresses the question of anthropic activities and their impacts on river hydrosystems, as well as the solutions found to remedy them. Through this course students obtain knowledge in: the major issues in hydrology (e.g. flood, low water) or related to hydrology (pollution, soil erosion); the link between hydrology and the various related disciplines (climatology, geology, fluvial geomorphology, hydraulics, biology); the processes of transformation rain-flow. Other topics: definition and characterization a watershed; the explanation of the hydrological cycle at this scale (flow, reservoir, characteristic time, flow genesis); diagnosis of a change in hydrological response to an anthropogenic change in watershed characteristics. This course must be taken concurrently with the tutorial.

Language(s) of Instruction

French

Host Institution Course Number

2BAG0013

Host Institution Course Title

HYDROLOGIE ET HYDROLOGIE TD

Host Institution Campus

LYON 2

Host Institution Faculty

Host Institution Degree

Host Institution Department

Geography

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