

GEOGRAPHY 327(001) – WINTER 2020

HYDROLOGY

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Schedule: **Class:** Tuesday and Thursday, 1:00 – 2:15 pm
Office hours: by appointment

Textbook: all necessary reading materials will be available in the Map Library (CL 316) for 1-hour reservation.

Description:

This course will investigate the basic principles of hydrology, and the geography of water. There will be a specific focus on near-surface components of the hydrological cycle, which include streamflow, groundwater, and water stored as glaciers, snow, and ice, as well as their interaction with other elements of the physical environment and with human activities. There will be 3 laboratory-based assignments in which you will be required to acquire, analyze and interpret hydrological data and apply your knowledge of basic hydrological principles. Local examples of Canadian Prairie hydrology will be discussed.

Grading*:

Assignments (3):	15%
Midterm**:	25%
Research Paper**:	25%
Final Exam**:	35%

*Late assignments will be penalized 15% per day (including weekends and holidays). Exceptions will be granted for documented medical or compassionate reasons.

**The midterm, research paper, and final exam are compulsory components, and failure to complete each will result in a grade of NP for the course.

Course Schedule:

Assignment and Exam Schedule (tentative):

Topics

Introduction – basic concepts

The hydrological cycle

Precipitation, interception

Assignment 1

Evapotranspiration, infiltration

Stream hydrology

Assignment 2

Lakes

MIDTERM

Runoff

Groundwater

Assignment 3

Soil water

Snow, Ice

Research Paper

Review