

# GEOGRAPHY 327-991

## HYDROLOGY

<b>INSTRUCTOR:</b>	Mark Coté Room CL 325.3 306-585-4879 (office)	Winter 2018  mark.cote@uregina.ca
<b>SCHEDULE:</b>	18 <sup>00</sup> – 20 <sup>45</sup> , Monday	
<b>TEXTBOOK:</b>	Dingman, S. Lawrence. 2015. <i>Physical Hydrology</i> , 3 <sup>rd</sup> Ed.. Waveland Press (previous editions may be suitable)	
<b>GRADING:</b>	Lab Exercises (approx. 3)	= 24%
	Midterm Exam (February 12 <sup>th</sup> )	= 18%
	Research/Review Paper (Due: March 19 <sup>th</sup> )	= 26%
	Final exam (April 30 <sup>th</sup> , 7PM)	= 32%

*Note – The Midterm, Paper and Final are compulsory – failure to complete each will result in a grade of NP for the course*

### DESCRIPTION:

The basic principles of hydrology and the geography of water are explored. Likely emphasis will be hydrometeorology and hydroclimatology. Expect, also, some examination of the near-surface components of the hydrological cycle, e.g., streamflow, groundwater and water stored as glaciers, snow and ground ice, and their interaction with other elements of the physical environment and with human activities. The acquisition, analysis and interpretation of hydrologic data also are examined, particularly in laboratory exercises.

### SCHEDULE (tentative):

<i>Week</i>	<i>Topics [Chapter in Dingman]</i>
1	Introduction, Basic Concepts [1,2,3]
2&3	Precipitation [4]
4	Return Period, Risk, Probability
5	Infiltration, soil moisture [8]
6	Evapotranspiration [6]
7	Break (February 19-23, inclusive).
8	Lakes
9&10	Runoff [10]
11	Groundwater [9]
12	Snow, Ice [5]
13&14	Water Quality, Water Allocation