# \_धुट्टी douglas college

## Course Information

Page 1 of 3

		Date: July	
Department: <u>Social Sc</u>	iences	New Course	
		Révision of C Information F	
		Dated: Jul	y 9, 1986
G <u>EOG 321</u>	D Introd	iction to Hydrology	g 3
Subject & Course No		Descriptive Title	Semester Cre
Calendar Description:			Summary of Revisio
dynamics and compone terrestrial phase.	nt parts, but wi Field and lab wo nalysis of hydro on a description	ork will involve measurement blogic data. Emphasis	(Enter date and Sect Revised) e.g. 1982-08-25 Section C,E,F, and F
Type of Instruction:	Hours Per Week /	H: Course Prerequiaites:	
Lecture	Per-Semester  4 Hrs.	GEOG/GEOL 120, GEOG 110	
Laboratory Seminar	Hrs.	I. Course Corequisites:	
	Hrs.		
Clinical Experience Field Experience Practicum Shop Studio	Hrs Hrs Hrs Hrs Hrs.	J. Courses for which this Course is a Pre-requisite:	
Clinical Experience Field Experience Practicum Shop	— Hrs. — Hrs. — Hrs. — Hrs. — Hrs.		
Clinical Experience Field Experience Practicum Shop Studio Student Directed Learning	HrsHrsHrsHrsHrsHrs.	Pre-requisite:	
Clinical Experience Field Experience Practicum Shop Studio Student Directed Learning Other (Specify)	Hrs. Hrs. Hrs. Hrs. Hrs. Hrs. Hrs. Hrs.	Pre-requisite: K. Maximum Class Size:	

© Douglas College

	APH		

Subject and Course Number

			-	
Page	0	-4	Э.	
raye	4	Οl	 	 

N. Textbooks and Materials to be Purchased by Students (Use Bibliographic Form):

Ward, R.C. <u>Principles of Hydrology</u> 2nd Edition, McGraw Hill,
London, 1975.

Complete Form with Entries Under the Following Headings: O. Course Objectives; P. Course Content; Q. Method of Instruction; R. Course Evaluation

### O. COURSE OBJECTIVES

By the end of the course the student will

- have become familiar with the hydrologic cycle and the variety of processes involved within it.
- be able to describe and to use maps and air photographs to identify and illustrate the variety of landforms involved in the terrestrial stage of the cycle.
- be able to utilize, through lab and field work, the routine methods for measuring hydrologic flow and storage.
- have used, through map and field work, some methods of analysing hydrological data.
- be aware of the extent of Canada's water resources and aspects of their management.

#### P. Course Content

The definition and scope of hydrology
The hydrologic cycle
Global and regional water balances
Precipitation - regional variations, mechanisms, measurement
Interception, infiltration
Evaporation, evapotranspiration
Snow and ice
Soil moisture
Groundwater
Run off - stream flow, basins, watershed models
Surface water storage
Inventory of Canadian water resources
Water quality, water management

#### Q. METHOD OF INSTRUCTION

Lectures, in class and in the field, will constitute the main method of presentation, with class projects and class and field laboratory assignments incorporated.

Films and slides will be used where appropriate.

Readings will be assigned to supplement the text book and the lectures.

An "open lab period" will be scheduled as needed.

Subject and Course Number

#### R. COURSE EVALUATION

Essay	15%
Research project involving field	
work and lab analysis	20%
Lab exercises	40%
Final examination	√ 25%

© Douglas College. All Rights Reserved.