



**EFFECTIVE: SEPTEMBER 2004
CURRICULUM GUIDELINES**

A. Division: **INSTRUCTIONAL** Effective Date: **SEPTEMBER 2004**

B. Department / Program Area: **GEOGRAPHY** Revision: New Course:
FACULTY OF HUMANITIES
& SOCIAL SCIENCES

If Revision, Section(s) Revised: **C, H**

Date of Previous Revision: **JULY 1986**

Date of Current Revision: **APRIL 2004**

C: **GEOG 2321** D: **INTRODUCTION TO HYDROLOGY** E: **3**

Subject & Course No.	Descriptive Title	Semester Credits
F: Calendar Description: This course involves the study of hydrologic cycle, its dynamics and component parts, but with emphasis on the terrestrial phase. Field and lab work will involve measurement techniques and the analysis of hydrologic data. Emphasis will also be placed on a description of Canada’s water resources and their management.		
G: Allocation of Contact Hours to Type of Instruction / Learning Settings Primary Methods of Instructional Delivery and/or Learning Settings: Lecture Number of Contact Hours: (per week / semester for each descriptor) Lecture: 4 hrs. per week / semester Number of Weeks per Semester: 15	H: Course Prerequisites: GEOG/GEOL 1120, GEOG 1110 I: Course Corequisites: NONE J: Course for which this Course is a Prerequisite: NONE K: Maximum Class Size: 35	
L: PLEASE INDICATE: <input type="checkbox"/> Non-Credit <input type="checkbox"/> College Credit Non-Transfer <input checked="" type="checkbox"/> College Credit Transfer: SEE BC TRANSFER GUIDE FOR TRANSFER DETAILS (www.bctransferguide.ca)		

M:	<p>Course Objectives / Learning Outcomes</p> <p>By the end of the course the student will</p> <ul style="list-style-type: none"> - 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 analyzing hydrological data. - be aware of the extent of Canada’s water resources and aspects of their management. 								
N:	<p>Course Content</p> <p>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</p>								
O:	<p>Methods of Instruction</p> <p>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.</p>								
P:	<p>Textbooks and Materials to be Purchased by Students</p> <p>Ward, R.C. <u>Principles of Hydrology</u>, 2nd Edition, McGraw Hill, London, 1975.</p>								
Q:	<p>Means of Assessment</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 20px 2px 20px;">Essay</td> <td style="text-align: right; padding: 2px 20px 2px 20px;">15%</td> </tr> <tr> <td style="padding: 2px 20px 2px 20px;">Research project involving field work and lab analysis</td> <td style="text-align: right; padding: 2px 20px 2px 20px;">20%</td> </tr> <tr> <td style="padding: 2px 20px 2px 20px;">Lab exercises</td> <td style="text-align: right; padding: 2px 20px 2px 20px;">40%</td> </tr> <tr> <td style="padding: 2px 20px 2px 20px;">Final examination</td> <td style="text-align: right; padding: 2px 20px 2px 20px;">25%</td> </tr> </table>	Essay	15%	Research project involving field work and lab analysis	20%	Lab exercises	40%	Final examination	25%
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R:	<p>Prior Learning Assessment and Recognition: specify whether course is open for PLAR</p> <p>No.</p>								

Course Designer(s): Elizabeth Peerless

Education Council / Curriculum Committee Representative

Dean / Director

Registrar