Sp. douglas college

G2516 (Rev. Aug./82)

Course Information

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Division: Ac	ademic	Date:	bruary 12, 1986
Department:	Sciences and Mathema	tics New Cours	8:
		Revision of Information	. 10 m
		Dated: Se	ptember 11, 1981
GEOL 321		성 아니는 하는데 첫 강하다고 아들을 보다고 하다	
Subject & Cou	Irse No.	oduction to Sedimentology Descriptive Title	E. 4 Semester Cred
processes invo	lved in the formation eristics imparted to	brief study of the various n of sedimentary rocks, and formations by different	Summary of Revision (Enter date and Section Revised) e.g. 1982-08-25 Section C,E,F, and R.
			1981-09-11
			Section G, N.
Type of Instruction:	Hours Per Week /		
Type of methodion.	Per Semester	H. Course Prerequisites:	
Lecture	2 Hrs.	GEOL 120	
Laboratory	4Hrs.	I. Course Corequisites:	
Seminar	Hrs.		
Clinical Experience	Hrs,		
Field Experience	Hrs.	J. Courses for which this Course is	8
Practicum	Hrs.	Pre-requisite:	
Shop Studio	——— Hrs. ——— Hrs.	병류 다시 내 프랑블리카 하나 보고 있다.	
Student Directed Lea			
Other (Specify)	Hrs.	K. Maximum Class Size:	
Total	6Hrs.	15	
College Credit Transf		M. Transfer Credit: Requested Granted X	
Non-Credit		(Specify Course Equivalents or Unassigned Credit as Appropriate) U.B.C. GEOL 226 (1½) S.F.U.General Elective Geol U.Vic.GEOL 321 + GEOL 421 = Other	(4) GEOL 201 (3)
Bomend	Designer(s)	b. W. bilgo	

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ATC: LJ		32	

Subject and Course Number

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

Text: Blatt, H. (19) Sedimentary Petrology, W.H. Freeman

Lab Manual: Friedman & Johnson (1982) Exercises in Sedimentology, John Wiley

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

O. COURSE OBJECTIVES

The student should be able to:

- 1. Identify the effects of weathering on rocks in the field.
- 2. Identify sedimentary rocks in hand specimens and in the field.
- 3. Carry out grain size analysis of loose sediments.
- 4. Explain the dynamics of sediment transport and deposition.
- 5. Determine the environment of formation of various sedimentary rocks.
- 6. Differentiate sedimentary environments in the field.
- 7. Work out the geological history of a sedimentary basin from the study of geological maps.
- P. COURSE CONTENT

LECTURE TOPICS:

- 1. Introduction Occurrence of sedimentary rocks
- 2. Formation of sediment
- 3. Sandstones/Conglomerates/Breccia
- 4. Mudrocks
- Limestones/Dolomites
- 6. Evaporites
- 7. Iron-rich rocks
- 8. Cherts/Hydrocarbons/Volcanoclastics (one of)

LABORATORY TOPICS:

- 1. Mineral Lab review
- 2. Sedimentary particles
- 3. Textural analysis of sand
- 4. Particle size analysis
- 5. Detrital rocks
- 6. Carbonate staining/peels
- 7. Carbonate rocks
- 8. Evaporites/cherts/ironstones/phosphates
- 9. Acetolysis
- * Each student will be assigned a field project, generally in the Lower Mainland of British Columbia, and will be expected to provide a comprehensive report on the sedimentology of the area assigned.

Q. METHOD OF INSTRUCTION

- The primary modes of instruction shall be lectures, laboratories, and field trips.
- 2. Readings will be assigned to supplement lectures.
- 3. Audio-visual aids will be used where appropriate.
- R. COURSE EVALUATION

1.	Mid-term test	30%
2.	Field Project	30%
3.	Laboratory exercises	10%
4.	Final examination	30%
		100%

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