Historical Geology

Earth Sciences 102

Section: d100

Term: 2003 Summer

Instructor: Robbie Dunlop / Kevin Cameron

Discussion Topics: General:

EASC 102 is an introductory course that deals with the historical development of geological thought and the study of Earth history. It is highly recommended that the student successfully complete Physical Geology (EASC 101) or GEOG 111 prior to enrolling in EASC 102.

Course Topics:

1. Historical development of geological thought and of geological principles.

2. The significance of the "sedimentary archives".

3. Evolutionary theory and the nature of the fossil record.

4. The relationship of time and geology.

5. The Earth\202s dynamic crust and plate tectonic theory.

6. Historical development of the Earth. The course will concentrate on the changes the Earth has experienced from Precambrian time, through the Paleozoic, Mesozoic and Cenozoic Eras. The changes considered encompass global distributions of land and seas, mountain building episodes, glacial cycles, and the evolutiion of life.

Course Organization:

One 2 hour lecture and One 2 hour laboratory period per week.

Grading: 1. Written Laboratory Assignments: 25%

2. Mid-Term Theory Test: 20%

3. Mid-Term Laboratory Test: 10%

4. Final Laboratory Test: 10%

5. Final Theory Test: 35% *NOTE: There is no final EXAM.

Required Texts: Course Textbooks:

Levin, H.L. 1999. The Earth Through Time (6th Edition). Saunders College Publishing, 568p.

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Course Laboratory Manual:

Brice, J.D., Levin, H.L., and Smith, M.S., 2001. Laboratory Studies in Earth History (7th Ed.)

Recommended Texts:

Materials/Supplies:

Prerequisite/Corequisite:

Notes:

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University’s IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.