



APEGM SYLLABUS FOR GEOLOGY

(ADOPTED BY ADMISSIONS BOARD OCTOBER 17, 2000)

The following outlines the minimum knowledge of Geology required for the practice of professional geoscience in Manitoba.

Definition: The fundamental unit of each outline is the educational unit (EU). One educational unit in a knowledge subject is defined as a formal instruction equivalent to a one-term (one-semester) course in an Honours B.Sc. degree program at a Canadian university. A minimum of a first-year university level course is required.

SECTION I: FUNDAMENTAL SCIENCE (9 EUs required)

A. Specified Science (6 EUs required):

Mathematics	Minimum 1 EU
Physics	Minimum 1 EU
Chemistry	Minimum 1 EU

AND 3 more EUs from Mathematics, Physics, Chemistry, or Biology, with a maximum credit of 2 EUs in Biology

B. Additional Science (3 EUs required):

Mathematics
Chemistry
Physics
Biology
Statistics
Computer Science

C. Technical Communications

Submission of a substantive report or thesis that demonstrates technical communication involving data collection and description, interpretation and synthesis. A literature-based paper is not acceptable.

SECTION II: GEOLOGY (20 EUs required in addition to fundamental science in Section I):

A. Field practice or field techniques* (1 EU required)

*Knowledge from field-based instruction, not lectures

B. Fundamental Subjects (5 EUs required from list, with not more than one EU credited in any subject)

Mineralogy
Stratigraphy or sedimentology
Structural geology
Petrology
Geochemistry
Geophysics
Hydrology or hydrogeology

C. Additional Subjects (14 EUs required, of which at least 12 must be Geoscience*)

Fourteen additional EUs required, which can be all in geoscience, with not fewer than twelve EUs in geoscience and not more than two EUs in science other than geoscience.

*Definition of Geoscience: APEGM has the responsibility to regulate the practice of professional geoscience in Manitoba. It does not regulate the “practice” of Earth science or Earth systems science, which may include activity in fields such as atmospheric science, meteorology, and oceanography that currently fall outside the scope of regulated professional geoscience in Manitoba. However, for the purpose of credit in section C, EUs in these or other sciences can be credited as science other than geoscience.