

## Fourth Year.

## I.—Ordinary Course for General Students.

A. *Mineralogy.*

- A, 1. The Physical Relations of Mineralogy.
- A, 2. The Chemical Relations of Mineralogy.
- A, 3. Descriptive Mineralogy.

B. *Geology, Palæontology, and Physical Geography.*

- B, 1. The Fundamental Principles of Geology.
- B, 2. Palæontology, or the Natural History and Geological Application of Organic Remains.
- B, 3. Chronological and Descriptive Geology.
- B, 4. Physical Geography, or the Earth in its present aspect and conditions.

## II.—Additional Course for Candidates for Honors.

A. *Application of Trigonometry to the Calculation of Crystal Axes and Angles.*B. *Geology of North America, with Rock Formations and Economic Minerals of Canada considered in detail.*

- B, 1. General Sketch of American Geology.
- B, 2. Sub-divisions, mineral characters, distinctive fossils, and economic substances of Canadian Rocks.
- B, 3. Connected View of Canadian Geology, shewing the distribution and grouping of the various formations throughout the Province.

(*Books of Reference:* Dana's System of Mineralogy, 4th ed.; Dana's Manual of Geology; Lyell's Elements and Principles of Geology; De la Beche's Geological Observer; Murchison's Siluria; Pictet's Paléontologie; Geology of Canada, by Logan and Hunt; Johnston's Quarto Atlas of Physical Geography; Synopsis of Professor Chapman's Lectures; Professor Chapman's Examples of the Application of Trigonometry to the Calculation of Crystal Axes.)

\* \* \* In addition to the regular courses, a separate course of elementary and practical Lectures, on the *Minerals and Geology of Canada*, is given during the months of February and March. This course is especially intended to meet the requirements of Provincial Land Surveyors and Mining Engineers.