

(*Books of Reference*—Dana's Manual of Mineralogy; Lyell's Elementary Manual; Chapman's Minerals and Geology of Canada; Johnstone's Elementary Atlas of Physical Phenomena, 8vo edition.)

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, showing the distribution and grouping of the various formations throughout the Province.

(*Books of Reference*—Dana's System of Mineralogy; Dana's Manual of Geology; Lyell's Elements and Principles of Geology; Murchison's Siluria; Pictet's Palæontologie; 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 these 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.