FOURTH YEAR.

I .- ORDINARY COURSE FOR GENERAL STUDENTS.

A. Mineralogy.

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- A, 1. The Physical relations of Mineralogy.
- A, 2. The Chemical relations of Mineralogy.
- A, 3. Descriptive Mineralogy.
- B. Geology, Palaeontology, 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 conomic 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; Dana's Manual of Geology; Lyell's Elements and Principles of Geology; 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 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.