

A, 1. The characters by which Minerals are distinguished from one another.

A, 2. The conditions of occurrence, composition, &c., of commonly occurring Minerals and Metallic Ores.

B. *Elements of Geology.*

B, 1. General principles of Geology. Structural characters, and classification of rock masses.

B, 2. A general outline of the Geological ages and epochs.

## II.—ADDITIONAL COURSE FOR CANDIDATES FOR HONORS.

A. *The Rudiments of Crystallography.*

B. *The Rudiments of Palæontology.*

C. *The Elements of Physical Geography.*

(*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.