

2. *Physical Geology*.—Composition of Rocks and their structure on the small scale. Origin of Rocks, considered as a Aqueous, Igneous, or Metamorphic. Arrangement of Rocks on the large scale; stratification, elevation and disturbances, denudation.

3. *Chronological Geology and Palæontology*.—Data for determining the relative ages of formations. Classification according to age. Fauna and Flora of the successive periods. Geology of British America.

4. *Practical and Economical Geology*.—Methods of observation and of making Geological surveys. Applications of the science to Mining, Engineering, and Agriculture.

Text-Books—Dana's Manuals of Mineralogy and Geology, with Lyell's Elements.

B. A. HONOUR COURSE.

Students entering for Honours must have passed creditably the examinations in Elementary Chemistry, Zoology, Botany and Experimental Physics; and should know the Elements of Drawing. Students entering for practical purposes will be required only to satisfy the Professor of their fitness for the studies of the class.

Candidates for Honours will be expected to attain such proficiency as to be able to undertake original investigations, in some at least of the subjects of study.

The Lectures will include :—

1. An advanced course in General Geology and Palæontology, in connection with which the Students will be required to read Dana's Geology and Owen's Palæontology.

2. Canadian Geology, in connection with which the Students will read Logan's Report of the Geological Survey of Canada, and Dawson's Acadian Geology.

3. Practical Geology and determination of species; with books of reference from the College Library, specimens from the Museum, and field work when Practicable.

In addition to the above, the Student will be examined in any two of the following subjects :

1. The Systematic part of Botany, as in Gray's "Text Book" and "Manual," and specimens illustrative of these books from the Museum.

2. Owen's Lectures on the Invertebrate Animals, and specimens illustrative thereof from the Museum.

3. Dana's Mineralogy, and specimens illustrative thereof from the Museum.

The Lectures in Natural History will be accompanied with demonstrations in the Museum. Students in Natural History are also entitled to tickets of admission to the Museum of the Natural History Society of Montreal.