

2. *Physical Geology*.—Composition of Rocks and their structure on the small scale.—Origin of Rocks, aqueous, volcanic, plutonic, 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*:—Nichol's Mineralogy, and Lyell's Elements, Jukes' Manual, Ansted's Elementary Course, or Page's Advanced Text-Book.

IV. PRACTICAL AND HONOR COURSE,—(*Students of the Fourth year and Special Students*).—Students entering for honors 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.

The course will consist of demonstrations and explanations on the following subjects, with such modifications as may be found necessary to suit the future pursuits of students.—Examination, determination, and description of specimens.—Use of the Blow-pipe and of Chemical methods in Natural History.—Use of the Microscope in original investigation.—Preparation of Specimens for study and preservation.—Special studies in the Zoology, Geology, and Palæontology of British America, with field work when practicable. Students will be required to read such of the following books as may be appointed:—Owen's Lectures on the Invertebrate Animals; Jones' Animal Kingdom:—Lyell's Principles and Elements; De la Beche's Geological Observer; Murchison's Siluria; and for local information, Logan & Hunt's Geology of Canada; Dawson's Acadian Geology; Lyell's Travels in North America. Books of reference will be furnished from the College Library.