

10. GEOLOGY AND NATURAL HISTORY.

(LOGAN PROFESSORSHIP OF GEOLOGY.)

Professor, J. W. DAWSON, LL.D., F.R.S., F.G.S.

P. J. Harrington, B.A., Ph. D., Assistant Professor of Geology.

I. BIOLOGICAL COURSE.

BOTANY.—(*Second Year.*)—Vegetable Histology and Organography. Nutrition and Reproduction of Plants. Classification. Descriptive Botany. Flora of Canada. Palaeobotany and Geographical Botany.

Text-book.—Gray's Structural and Systematic Botany.

[A prize of \$20 will be given by the Professor for the best collection of plants, and the greatest proficiency in their determination. The prize collections or duplicates of them to remain in the College Museum. Candidates must be students in Botany of the previous session.]

ZOOLOGY AND PALAEONTOLOGY. (*Third Year*)—Elements of Animal Physiology. Classification of Animals. Characters of the Classes and Orders of Animals, with Recent and Fossil Examples.

Text-book.—Dawson's Hand-book of Zoology, with books of reference.

II. GEOLOGICAL COURSE.

MINERALOGY AND GEOLOGY. *Fourth Year.*

(1) *Mineralogy.*—Chemical and Physical characters of Minerals, including Crystallography, the methods of determining species, and Descriptive Mineralogy; with special reference to those species most important in Geology, or useful in the Arts.

(2) *Lithology and Stratigraphy.*—Composition of Rocks and their structure on the small scale; Classification of Rocks. Arrangement of Rocks on the large scale; Stratification, Elevation and Disturbances, Denudation.

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

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

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.

11. CHEMISTRY.

Lecturer, B. J. HARRINGTON, B.A., Ph. D.

First Year.—A course of Elementary Chemistry preparatory to the courses in Natural Science and Practical Science.

Text-book.—Wilson's Inorganic Chemistry.