

8. NATURAL HISTORY.

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

I. CHEMISTRY.—(First Year.)

An Elementary Course of Inorganic Chemistry, accompanied by Experiments.
Text-book—Wilson's Chemistry revised by Macadam.

II. BOTANY.—(Second Year and part of the Third Year.)

1. *Histology, Morphology and Physiology of the Plant*, or description of its elementary tissues and organs, and investigation of its functions of nutrition and reproduction.

2. *Systematic and Descriptive Botany*, or the principles of the Classification of Plants, with descriptions of the more important Natural Orders, special notices of the Flora of Canada, and instructions for collecting and determining Plants, and for the use of the Microscope.

3. *Geographical Botany*, or the distribution of Plants over the Globe.

Text book—Gray's Structural and Systematic Botany.

Students desiring a more complete knowledge of the subject, will have the benefit of an additional Course of determinative and Canadian Botany in the two first months of the Session. A Prize of the value of about \$20, will be given 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.

III. ZOOLOGY AND COMPARATIVE PHYSIOLOGY, (Third Year.)

1. *General Zoology*, including the Elements of the Histology, Comparative Anatomy and Physiology of Animals, with the Principles of Classification and the division of the animal Kingdom into Provinces or Sub-kingdoms.

2. *Descriptive Zoology*, including the characters of the Classes and Orders of the Animal Kingdom, illustrated by typical examples, and as far as possible by Canadian species.

Text-books—Synopsis by the Professor, with Agassiz and Gould's Principles.

A Prize of the value of about \$10, will be given for the best named collection of Canadian Fossils, Insects, or Marine Invertebrates: conditions as stated above under Botany.*

IV. 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 to Geology, or useful in the Arts.

* From the Surplus Income of the Logan Medal Fund.

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