

Botany, including Anatomy and Physiology of Plants, and Systematic Botany, with notices of the Flora of Canada, and of the principal plants applied to medicinal and other useful purposes.

Mineralogy and Geology—including the chemical composition and mode of formation of Mineral substances, crystallography, characters and determination of minerals, description of the more important minerals and rocks, especially those used in the arts or Geological importance; arrangement and changes of the materials of the earth's crust, Chronological Geology; Palaeontology; useful applications of geology, and geology of British America.

Though this course is very comprehensive, the length of the Session will enable the subjects to be treated with considerable detail, and special attention will be given to those points which are most important in the actual investigation of nature. Regular examinations will be held, and particular instructions given in the methods of determining species and of procuring and preserving specimens. The Lectures will be copiously illustrated by drawings and natural objects, and the Students will have access to a *well arranged* collection of characteristic specimens.

CHEMISTRY.

Professor W. Sutherland, Esq., M.D.

(This class is imperative in the third year, optional in other years.)

Every Day except Saturday, 7 to 8 P. M.

The course includes the following subjects:—

Inorganic Chemistry, comprising Heat, Light, Electricity, Galvanism, Crystallography, the Laws of Combination by Weight and by Volume, the Gases and Non-Metallic Elements and their Compounds; the Metals, their combinations and modes of extraction from their ores, and application in the arts.

Organic Chemistry, comprising substances found in or derived by decomposition from Vegetables and Animals; and Physiological Chemistry, both animal and vegetable.

The lectures will be illustrated by numerous experiments and specimens; and one hour in each week will be devoted to examinations.

AGRICULTURE AND AGRICULTURAL CHEMISTRY.

Professor Dawson.

Monday and Friday, 4 to 5.

(This class is accessible to all matriculated Students in the third or fourth years.)

The lectures will commence on the first Monday of November, and will include the following subjects:—

Chemical and Mechanical Properties of Soils—Soils of Canada—Organic and Inorganic Constituents of Plants and Manures—Detailed Consideration of the several Crops, their Culture, Diseases and Enemies—Manures, with the cheapest and best methods of obtaining and applying them—Rotation of Crops, its reasons and various kinds in use, enquiry as to possibility of avoiding rotation by use of special manures—Tillage, its principles and practice, sub-soil ploughing, draining, &c.—Domestic Animals, their breeds and management, the Dairy—Orchard and Garden Culture, varieties of fruits, diseases and enemies of fruit trees, small fruits and vegetables.

Students may enter themselves for the *Special Course of Agriculture* as follows:

	English Composition.
	Mathematics.
1st Year	French.
	Chemistry.
	Natural History.