

THIRD YEAR.

MATHEMATICS:

Integral Calculus.

INORGANIC CHEMISTRY:

Lectures and Laboratory Practice in the preparation of the Non-Metals and their chief compounds.

Lectures and Laboratory Practice in Qualitative Analysis.

BIOLOGY:

Lectures on the Elements of Biology and the Classification of the Invertebrates, also on Histology and Preparation of Histological Specimens.

MINERALOGY:*

Lectures on Crystallography, illustrated by a collection of over one hundred models.

Determination of all the principal forms, chief derivative forms, and their combinations of the six systems.

Lectures on physical characters of Minerals; also on Blow-pipe Analysis (qualitative) with Laboratory Practice (six hours weekly).

GEOLOGY:†

Lectures on Lithology, illustrated by hand specimens; Dynamic Geology and Historic Geology, with rudiments of Paleontology.

Practical work in Lithology and Paleontology, with preparation of Microscopic Sections.

ASSAYING:

Lectures and Laboratory Practice.

FRENCH:

Junior Year in Arts.

GERMAN:

Junior Year in Arts.

PHILOSOPHY:

Bowne's Psychology.

History of Philosophy (Schwegler, Bowen).

FOURTH YEAR.

ASTRONOMY:

Lectures.

*Tools required: Blow-pipe with platinum point, and Plattner's mouthpiece, platinum wire, wireholder, hammer, and box of test minerals. Elegant and convenient tables, furnished with blow-pipe lamp and re-agents, are supplied by the Department at a fee of \$5 per term. The Examination in this subject is entirely practical, and consists in determining the system, formula, description, and derivation of any two out of the collection of one hundred crystallographic models; also a description of the physical characters, and determination of the chemical constituents of any two minerals, furnished in a sealed box by the Examiner.

†The Examination in the subject of Lithology is entirely practical, and consists in the determination and description of hand specimens of rocks occurring in the drift about Cobourg. The subject of Historic Geology includes a number of Lectures, to which the public are admitted.