

Students in the Third Year may select either of the following courses :

(a) INDUSTRIAL CHEMISTRY,

Physics, Chemistry Pure and Applied, with Laboratory work in General and Technical Analysis.

(b) METALLURGY.

Including Mineralogy and Geology, Chemistry Pure and Applied with Laboratory work in Mineral Analysis and Assaying.

(c) SANITARY CHEMISTRY.

Including Physiology and Bacteriology, Chemistry Pure and Applied, with Laboratory work in Toxicology, and the Analysis of Food, Water and Air.

#### V. DEPARTMENT OF ASSAYING AND MINING GEOLOGY.

In this Department the student is fully prepared in all the methods of analysis necessary to render him a competent Assayer. He is also qualified to survey and report upon the value of mineral lands.

##### SUBJECTS OF FIRST YEAR :

1. Elementary Mathematics, including Mensuration and Plane Trigonometry.
2. Elements of Natural Philosophy, including Mechanics and Hydraulics.
3. Inorganic Chemistry.
4. Elementary Mineralogy and Blowpipe Practice.
5. Elementary Biology.
6. Physical Geography, Paleontology and Geology.
7. Drawing.

##### SUBJECTS OF SECOND YEAR :

1. Higher Mathematics, including Spherical Trigonometry, etc.
2. Chemistry, with Laboratory practice in Qualitative Analysis.
3. Blowpipe Analysis and Determinative Mineralogy.
4. Geology and Economic Minerals of Canada.
5. Surveying and Levelling.

##### SUBJECTS OF THIRD YEAR :

1. Quantitative Chemical Analysis.
2. Metallurgy.
3. Assaying.
4. Study of Metallic Veins and other Mineral Deposits, Mining Calculations, Examinations of Mineral Lands.