

**MINERALOGY AND ROCK STUDY.**—Physical and Chemical Tests; Use of Tables in the Determination of Unknown Minerals; Rapid Recognition of the more important Minerals and Rocks; Practical Work with the Blowpipe, etc. During the laboratory periods, short talks will be given on the physical and chemical properties, occurrence and value of minerals and rocks.

Laboratory Course—Two 2-hour periods per week.—DR. E. T. HODGE.

**FIRE ASSAYING.**—Practical Laboratory Course; Actual Determination by Fire Assay of Gold, Silver, and Lead, in ordinary ores. If time perm. copper assaying by simple wet methods will be taught, and blowpipe assaying. Students may bring their own samples, if desired, in limited number, and make their own assays on their own ore for practice during the later periods.

Laboratory course—One 9-hour period per week.

—PROF. J. M. TURNBULL.

**CHEMISTRY.**—An elementary course of lectures, illustrated by numerous experiments, and designed to give the students a clear idea of the nature of chemical action and the chemical properties of various substances, particularly of minerals. This course will greatly assist in understanding the other courses, such as Geology, Mineralogy and Smelting.

Lecture Course—2 hours per week.—DR. D. MCINTOSH.

**SURVEYING.**—Elementary Principles of Surveying; Use of Compass; Measurement of Distances on Slopes; Measurement by Pacing; Staking of Claims; Taking Notes; Making Sketch Maps.

Lecture Course—2 hours per week.—PROF. E. G. MATHESON.

**BLACKSMITHING.**—Practice in Blacksmithing and Forge Work can be arranged for a limited number of students. This will include sharpening and tempering of steel, welding, ironwork, etc.

Shopwork—3 hours per week.—MR. H. TAYLOR.

