

The work of this class consists in the exhibition and description of the mineral specimens contained in the museum collection. Special attention is given to ores, gangue minerals, those having a commercial value and those of importance as rock-forming minerals, in geology. The specimens are constantly being increased by collection, donation, exchange and purchase, the aim being to make the museum as complete and representative as possible. Dana's *System of Mineralogy* is used as the text-book. No attempt is made to learn the minerals mechanically, the desire being rather to acquire a practical working knowledge, such as would be useful to the assayer, consulting geologist or mining engineer. The class meets at 8 a.m. on Mondays.

(D) *Determinative Mineralogy.*

Before taking this class students must have passed in elementary mineralogy, blowpipe analysis, and systematic mineralogy.

As far as possible the work of this class is carried on parallel with that in descriptive mineralogy, as the pyrognostic characters are of importance in the description of minerals.

The objects of the class are to assist students in acquiring a knowledge of the chemical properties of minerals and to enable them to test and recognize minerals in the field by simple tests such as streak, specific gravity, etc., or more leisurely at home, by means of the blowpipe and chemical reagents. (See under Blowpipe Analysis.)

Cabinets filled with mineral specimens are provided for use. Students are permitted to handle and examine these, under supervision. The advantage that this class affords to the prospector and field geologist will be at once apparent. On Saturday, during the fall term, excursions are made to interesting mineral localities. In this way the nucleus of a collection may be secured at a small cost.

*Text-Book*—Crosby's Tables for the Determination of Common Minerals.

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**GEOLOGY AND PETROGRAPHY.**

*Professor:* Willet G. Miller, B.A.

*Demonstrator:* M. B. Baker, B.A.

The instruction in this department is adapted to the needs of the prospector, the mining engineer, and the professional geologist. Provision is also made for persons who desire a knowledge of the subject as part of a general education. Graduates and others who wish to pursue some special line of investigation, or to have the use of the laboratories and apparatus, in order to work