

1. *The Elementary Principles of Mineralogy*; comprising, more especially, the practical discrimination of Minerals.

(Book of reference—Dana's Manual of Mineralogy.)

2. *The Elements of Geology and Paleontology.*

(Book of reference—Lyell's Elementary Manual.)

3. *The Elements of Physical Geography.*

(Book of reference—Johnston's Elementary Atlas of Physical Phenomena, 8vo. edition.)

II.—ADVANCED COURSE ON MINERALOGY.

In this course the following subdivisions are adopted:—

1. *The Physical and Chemical Relations of Mineralogy.*—This division includes the subject of Crystallography, the Classification of Minerals, and other questions constituting the general philosophy of the science. A certain knowledge of the common principles of Chemistry, and of Plane and Spherical Trigonometry, is here desirable on the part of the Student.

2. *Descriptive and Applied Mineralogy.*—Examinations of all the more important or interesting mineral substances that occur in nature, with the industrial applications of these considered in detail.

(Book of reference—Dana's System of Mineralogy, 4th ed.)

III.—ADVANCED COURSE ON GEOLOGY AND PHYSICAL GEOGRAPHY.

This course is discussed under the following subdivisions:—

1. *Fundamental Principles of Geology.*—A review of the common facts of the science, and of Geological Phenomena in general.