

Synopsis of Professor Chapman's Lectures; Professor Chapman's Examples of the Application of Trigonometry to the Calculation of Crystal Axes.)

. In addition to these courses, a separate course of elementary and practical Lectures, on the *Minerals and Geology of Canada*, is given during the months of February and March. This course is especially intended to meet the requirements of Provincial Land Surveyors, and Architects generally.

§ 12.

AGRICULTURE.

Professor—GEORGE BUCKLAND, ESQ.

Subjects of Lectures :

I.—HISTORY OF THE ART.

- (a) Agriculture, as understood and practised by the Ancients.
- (b) Agriculture during the Middle Ages.
- (c) Modern Agriculture.

II.—THE SCIENCE OF AGRICULTURE.

- (a) Soils : their origin, composition, distribution, classification, &c. Relations of Geology, Chemical and Mechanical Analyses.
- (b) Plants : their structure, composition, growth, &c. Manures : theory, action and relative value of ; modes of preparing, applying, and economizing. Relations of Chemistry and Botany to Agriculture.
- (c) The domesticated animals of the farm ; history and description of varieties or breeds ; the principles of breeding, with biographical sketches of the more distinguished breeders ; diseases and treatment ; relations of animal physiology to breeding, feeding, &c.
- (d) Influence of climate on agricultural productions, both animal and vegetable. Value of a knowledge of Meteorology and Physical Geography to farmers.