



used by students

Textbooks and materials to be purchased
(Use Bibliographic Form):

Klein, C. S. *Manual of Mineralogy*, 20th ed.

John Wiley & Sons, 1985

Method of Instruction

Course Objectives

Course Content

Method

Course Evaluation

After successful completion of this course the student will:

- 1. Identify the form of a unit cell and a crystal structure.
- 2. Classify given crystal models into crystal classes.

3. Explain the principles of translational symmetry and the chemical criteria governing the variation of crystal structure.

4. Show an understanding of the various physical and chemical techniques used in mineralogy.

A.

CRYSTALLOGRAPHY

EXTERNAL SYMMETRY

a) Symmetry operations:

- b) Combination of symmetry elements
- c) Derivation of the 32 crystal classes
- d) Crystallographic axes