

Geo 221 - Mineralogy
Lecture: Sunday Tuesday 15:00-15:50
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Course Goals and Objectives: To develop a basic understanding of (i) chemical bonding and internal structure of minerals, (ii) principles of crystallography, (iii) techniques used for identification of minerals, (2) To develop the ability to identify minerals in hand-specimen and thin section; (3) To understand the different processes of mineral formation; and (4) to develop some appreciation for the application of mineral science to everyday life.

Textbook: *Introduction to Mineralogy*" by William Nesse

Course Grading: Your grade in the course will be based on the following distribution of work

Exam 1	20 %	21/03/2017; 22/06/1438 (Tuesday)
In-class Quizzes	5 %	
Field trip and Home works	5 %	
Lab assignments	30 %	
Exam 2		16/05/2017; 20/08/1438 (Tuesday)
Final Exam	40 %	

Course topics:

- 1. Introduction to Crystallography and Mineral Crystal Systems**
- 2. Chemical and physical properties of minerals**
- 3. Classification and nomenclature of minerals**
- 4. Optical Properties of minerals**
- 5. Nature and occurrence of minerals**