



Economic Geology (111201491)

Course Syllabus

3 Credit hours. Introduction To Ore Deposits, The Ore Forming Processes, Ores Exploration And Evaluation.

Textbooks

1. Introduction to Ore Forming Processes by Laurence Robb, (Wiley-Blackwell, 2004)
2. Introduction to Mineral Exploration by Charles J. Moon, Michael K.G. Whateley & Anthony M. Evans, Second Edition

Instructor

Instructor: **Dr. Faten Al-Slaty**

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Prerequisites

Prerequisites by topic : Igneous, sedimentary, and metamorphic rocks

Prerequisites by course : 111201230 – Igneous and Metamorphic Rocks

Topics Covered

| Week | Topics | Parts in Texts |
|-------|---|-------------------|
| 1 | Introduction To Economic Geology And Terminology. | Review-Text 1 |
| 2-4 | Magmatic Ore-Forming Processes | Part1-Text |
| 14-6 | Hydrothermal Ore-Forming Processes | Part2-Text 1 |
| 7-8 | Surficial Ore-Forming Processes | Part3-Text 1 |
| 9-11 | Sedimentary Ore-Forming Processes | Part3-Text 1 |
| 11-12 | Metamorphic Ore Forming Processes | |
| 12-13 | Ore Deposits In A Global Tectonic Context, Patterns In The Distribution Of Mineral Deposits | Part4-Text 1 |
| 13-15 | Mineral Exploration processes | Chapter 10-Text 2 |
| 15-16 | Resource Evaluation | Chapter 11-Text 2 |

Evaluation

| Assessment Tool | Expected Due Date | Weight |
|------------------------|--|--------|
| First and Second Exams | According to the University calendar | 40 % |
| Activities | | 10 % |
| Final Exam | According to the University final examination schedule | 50 % |