



**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 %   |