



The Geological Society Accredited degree courses

GEOCHEMISTRY OF MINERAL DEPOSITS

Course Name	Course ID	Prerequisite
GEOCHEMISTRY OF Mineral Deposits	EMR 442	EMR 332

Time Table for Course Lectures

Geochemistry of Mineral Deposits (EMR 442)

Week	Lecture Topic
1	Course Outline and Definitions ^[1]
2	Geochemical Signature of Ore Deposits Using Major Oxides, Trace Elements, and
	Rees ^[2]
3	Geochemical Signature of Ore Deposits Using Stable Isotopes ^[2]
4	Fluid Composition in Ore Forming Processes ^[2]
5	Geochemistry of Wallrock Alterations ^[2]
6	Geochemistry of Fluorine and Fluorite Deposits ^[3]
7	Geochemistry of Beryllium Deposits ^[3]
8	Geochemistry of Strontium and Barium Deposits ^[3]
9	Bauxite Deposits and Their Geochemical Characteristics ^[1]
10	Iron Ore Deposits and Diversity in their Geochemistry ^[1,3]
11	Geochemical Signatures of Banded-Iron Formations ^[4]
12	Geochemistry of Manganese Deposits ^[1,3]
13	Geochemistry of Uranium and Uranium Deposits ^[1-3]
14	Geochemistry of Lead-Zinc Deposits ^[1]
15	General Revision and Presentation of Assignments
16	Final Exam
	References:

[1] Geochemistry of Sedimentary Ore Deposits, by Maynard, J.B., 1983. Springer-Verlag, New York Inc., USA.

][2]Geochemistry of Hydrothermal Ore Deposits. 3rd ed., by Barnes H.L., 1997. John

Wiley & Sons, New York.
[3] *Geochemistry of Stratabound Deposits in China*, by Guanghzi, T., 1996. J. C.
Leiden, The Netherlands.
[4] *Introductory Mining Engineering. 2nd ed.*, by Hartman, H.L. and Mutmansky, J.M., 2002. John Wiley & Sons, USA