

**SYLLABUS**

# **Mineral Deposit Evaluation**

## **7.5 credits T7010B**

**Fyndighetsvärdering**

**Course syllabus admitted: Autumn 2007 Sp 1 - Autumn 2007 Sp 2**

**DECISION**

**The plan is established by the Department of Civil and Environmental Engineering 2007-01-31 and is valid from H07.**

# Mineral Deposit Evaluation 7.5 credits T7010B

## Fyndighetsvärdering

### Second cycle, T7010B

Education level	Grade scale	Subject	Subject group (SCB)
Second cycle	U G#	Berg- och mineralteknik	Mining and Mineral Technology

## Entry requirements

Rock construction engineering 2 (ABT029), Open Pit and underground mining (ABT051) or equivalent knowledge in Rock Excavation and Mining Engineering.

## Selection

The selection is based on 30-285 credits

## Examiner

Jenny Greberg

## Course Aim

The course gives the student the ability to make economic evaluations of ore deposits. You will be able to perform market analyses, income-cost calculations and ore reserve evaluations.

## Contents

Market analysis: What is the market for the products? What threats are there? Would other products be more profitable on the market? Income - cost calculation. Ore reserve evaluation: Methods to use. Grade - tonnage curves. Geological ore reserve. Ore body modelling. Mining, mineral processing and concentrate transportation: Techniques and costs. Ore losses and waste dilution. Production volumes. Cut-off-grade. Smelting costs. Economic evaluation: Cash flow analysis. Net present value. Risk and sensibility analyses. Financing of mining projects.

## Realization

Classroom lectures, exercises and project work. The students will submit a written report and make an oral presentation of the project work. The students will work in groups and with problems related to Swedish rock engineering industry.

## Examination

Written exam, grade F, 3,4,5.  
Project work, written and oral presentation

## Overlap

The course T7010B is equal to ABT018, ABT057

## Literature. Valid from Autumn 2007 Sp 1

\\"Setting New Standards\\" by Ontario Securities Commission and text material handed out during the course.

## Course offered by

Department of Civil, Environmental and Natural Resources Engineering

## Items/credits

Number	Type	Credits	Grade
0001	Written exam	4.5	U G#
0002	Project work	3	U G#

## Syllabus established

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