PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE COLLEGE OF ENGINEERING DEPARTMENT OF MINING ENGINEERING ABET COURSE SYLLABI

IMM3403 MINING PROJECT

Credits and contact hours: 10 UC credits / 10 hours (3 h. Lectures; 1.5h. Assistantship and 5.5h.

Independent learning experiences)

Instructor's name: Gustavo Lagos

Course coordinator's name Gustavo Lagos

Textbook: Evaluación y factibilidad de proyectos mineros, Millán Urzúa, Augusto,

1996.

Course Catalog Description:

Mining project is the last course for mining students. Knowledge acquired in previous courses is applied and deepen by developing a solution to a

real problem in the mining industry.

Prerequisite Courses: IMM2015 Underground Mining, IMM2025 Metallurgical Processes and

ICS3532 Finance

Co-requisite Courses: None

Status in the Curriculum: Required

Course Learning

Outcomes:

1. Understand Chilean mining legislation.

2. Perform a technical mining prefeasibility project.

3. Perform an economic mining prefeasibility project.

4. Perform real technical-economic project evaluation applying

knowledge acquired along the engineering degree.

Relation of Course to ABET

Criteria:

a. Knowledge of mathematics, science and engineering

b. Design and conduct experiments: analyze and interpret data

c. Design a system, component, or process d. Multidisciplinary teams

e. Identify, formulate, and solve engineering problems

f. Professional and ethical responsibility

g. Effective communication

h. Broad education necessary for global, economic, environmental and

societal context

j. Knowledge of contemporary issues

k. Techniques, skills, and modern tools for engineering practice.

Topics covered:

- Chilean legislation: Mining code; mining laws; natural resources laws; laws affecting Codelco, Enami and Enap; tax legislation in mining and other industries; water laws applied to mining.
 Technical-economic prefeasibility evaluation of a mining/metallurgic project; review of basic theory for this evaluation; real project
- evaluation.