

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

ICH2104 GEOENGINEERING FIELD WORK AND LABORATORY

**PRELIMINARY PROGRAM
(THIS COURSE WILL BEGIN TO DICTATE ON 2-2016)**

Credits and contact hours:	10 UC credits /10 hours (3 hours in lectures, 7 h. individual work hours per week)
Instructor's name:	To be defined
Course coordinator's name	Cristián Escauriaza
Textbook:	Gonzalez de Vallejo, L., Ferrer, M., "Geological Engineering", CRC Press, 1st edition, 2011
Course Catalog Description:	This will be a course focused on the engineer's work in the field. Field measurement techniques, related to Earth sciences and engineering, will be taught along with data analysis and relations to other engineering disciplines
Prerequisite Courses:	ICE2623 Introduction to physical geology
Co-requisite Courses:	ICE2604 Fundamentals of Geotechnical Engineering
Status in the Curriculum:	Required
Course Learning Outcomes:	We expect the student to conduct fieldwork and use instrumentation to collect data for engineering analysis and design. The student should also be able to develop basic conceptual models and interpret the results.
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 e. Identify, formulate, and solve engineering problems k. Techniques, skills, and modern tools for engineering practice.
Topics covered:	To be defined