

EOSC 529, Slope Engineering
COURSE OUTLINE
Oldrich Hungr

January 14, 2016
WATCH FOR UPDATES

Purpose:

To cover selected topics related to slope stability and management of landslide hazards. The topics will be chosen in consultation with the class.

Time:

Thursday 12:00-14:00, Room EOS-M 121

Laboratory:

In place of laboratories, the course will use 1) Independent study and oral presentations (teams of two), 2) Exercises with use of computer software, 3) A laboratory project or field trip in March.

Text:

Regular readings will be assigned

Marking:

There will be a quiz in February, to test knowledge of material covered in lectures. The final mark will be based on: Quiz (5%), Oral Presentation (5%), Participation in class and exercises (10%), Final exam (80%).

Tentative outline:

Jan. 7

Introduction

Jan. 14

Classification of landslides

Reading assignment: Hungr, Picarelli and Leroueil, 2014

Jan. 21

Classification: continued

Reading assignment: -

Jan. 28

Slope Stabilization

Reading assignment: Ch. 15 from Cornforth, 2005

Feb 4

Slope Stabilization

Reading assignment: Mt. Polley Report

Feb. 11
Landslide dynamics and runout analysis
Reading assignment: Mt. Polley Report

Feb. 18
Reading weak

Feb. 25
TBA

Mar. 3
Landslide dynamics and runout analysis
Reading assignment: Mt. Polley Report

Mar. 10
Landslide Hazard and Risk Analysis

Midterm Quiz, 20 minutes

Reading assignment: Mt. Polley Report

Mar. 17
Landslide Hazard and Risk Analysis
Reading assignment: TBA

Mar. 24
Rock fall hazard assessment and mitigation
Reading assignment: TBA

Mar. 31
Selected topics

Apr. 7
Selected topics