GEOG 226 Traversing & Plotting Lab

OBJECTIVE

To develop proficiency

- using a compass, clinometers and chain to traverse between marked stations in the field
- calculating horizontal distance and elevation change based on measures of slope distance and slope gradient
- plotting from fields notes to create a map

OVERVIEW

Working in pairs, traverse between your assigned stations, arefully record your field measurements. Plot a map depicting your traverse route.

MATERIALS

Field:

- VIU campus map
- 30m chain, Silva Compass, Clinometer (Suunto)
- Note paper

Office:

• Douglas protractor, ruler, calculator, graph paper (provided)

PROCEDURE

Preparation

- 1. Work in groups of two. Each group needs to sign out the required equipment from Tim.
- 2. Confirm your ability to use the Silva compass, Suunto clinometer and Eslon chain.

Field

- 1. Traverse between the assigned stations.
- 2. Record: Station (Stn.), Bearing (Brg), Slope Distance (SD), Slope % & degrees. Be sure to use the appropriate format.

Office

- 1. Calculate Horizontal Distance (HD) & Elevation Change (Elev. Δ).
- 2. Determine appropriate scale of your map. Your plot should "fill most of the space" on the page.
- 3. Plot the map. Be sure to include an appropriate title, date, names, north arrow, scale, legend, station ID with elevation (nearest 1/10th metre).

DELIVERABLES

Each pair to submit field notes and the map.