

## 66-330 Environmental Geophysics

### Learning Outcomes

Last Updated: May 11, 2018

(Sa180511-5.5.2f)

<b>Learning Outcomes</b> <i>This is a sentence completion exercise.</i>  <u>At the end of this course, the successful student will know and be able to:</u>	<b>Characteristics of a University of Windsor Graduate</b>  <u>A U of Windsor graduate will have the ability to demonstrate:</u>
A. Describe the fundamental physics of the major geophysical techniques that may be applied in an environmental context. Interpret the major physical parameter that governs each geophysical technique.	the acquisition, application and integration of knowledge
B. Design a geophysical survey based on the nature of the problem investigated, collect data using different instruments, retrieve and access the collected data for evaluation and interpretation.	research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)
C. Critically assess and identify environmental problems that require the use of geophysical techniques for solutions.  Interpret geophysical data.	critical thinking and problem-solving skills
D. Manipulate geophysical data using various approaches including calculations and graphing. Produce 'conceptual models' retrievable from geophysical measurements. Write professional reports.	literacy and numeracy skills
E. Use geophysical instruments and other facilities in a responsible manner.	responsible behaviour to self, others and society
F. Summarize, discuss, and present the results of environmental geophysical analyses.	interpersonal and communications skills
G. Work in a group situation to assess and discuss geophysical data.	teamwork, and personal and group leadership skills
H.	creativity and aesthetic appreciation
I.	the ability and desire for continuous learning