

**66-499. Thesis Research in Environmental Science**

**Learning Outcomes**

Last Updated: May 11, 2018

(Sa180511-5.5.2f)

<p><b>Learning Outcomes</b> <i>This is a sentence completion exercise.</i></p> <p><u>At the end of this course, the successful student will know and be able to:</u></p>	<p><b>Characteristics of a University of Windsor Graduate</b></p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Collect environmental field data and/or data on environmental materials using appropriate methods and protocols</p>	<p>the acquisition, application and integration of knowledge</p>
<p>B. Define scientific questions using previously published data and models. Define testable scientific hypotheses and apply the scientific method to those hypotheses Interpret data to test the defined hypotheses (also relevant to C.)</p>	<p>research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Interpret data to test the defined hypotheses (also relevant to B.) Explain data and hypotheses in the context of published data and models.</p>	<p>critical thinking and problem-solving skills</p>
<p>D. Write theses that describe, interpret and discuss hypotheses and data in the context of previously published studies. (also relevant to C)</p>	<p>literacy and numeracy skills</p>
	<p>responsible behaviour to self, others and society</p>
<p>F. Synthesize and present research results and interpretations in public lectures.</p>	<p>interpersonal and communications skills</p>
<p>G. Demonstrate personal leadership in carrying out independent research.</p>	<p>teamwork, and personal and group leadership skills</p>
<p>H</p>	<p>creativity and aesthetic appreciation</p>
<p>I</p>	<p>the ability and desire for continuous learning</p>