

66-316. Environmental Modelling and Decision Analysis

Learning Outcomes

Last Updated: March 11, 2011

(PDC110201-5.3)

<p>Learning Outcomes <i>This is a sentence completion exercise.</i></p> <p><u>At the end of the course, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<p>A. Connect environmental observations to conceptual models of system processes.</p>	<p>A. the acquisition, application and integration of knowledge</p>
<p>B. Identify critical relationships influencing problems based on the problem background and relevant literature.</p> <p>Assess data sources and data collection approaches for fitness of use for problems.</p>	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<p>C. Critically read problem statements for relevant clues to represent problems.</p> <p>Select an appropriate model representation of problems.</p> <p>Identify a way of transforming general observations into information that is more relevant to problems.</p>	<p>C. critical thinking and problem-solving skills</p>
<p>D. Manage large sets of numerical data, and select data that are appropriate for particular problems.</p> <p>Manipulate data using models and calculations.</p> <p>Describe and interpret results of analysis using verbal and written communication.</p>	<p>D. literacy and numeracy skills</p>
<p>E. Demonstrate the role of models and estimates in the decision-making process.</p> <p>Explain the role of stakeholders in group decision making.</p> <p>Explain the consequences of decision-making on society.</p>	<p>E. responsible behaviour to self, others and society</p>
<p>F. Discuss and debate solution approaches to problems.</p> <p>Communicate results of analysis in graphical, written, and geographic map forms.</p>	<p>F. interpersonal and communications skills</p>
<p>G. Manage personal problem-solving assignments within a set time frame.</p> <p>Explain the roles and responsibilities in group decision making.</p>	<p>G. teamwork, and personal and group leadership skills</p>

Learning Outcomes <i>This is a sentence completion exercise.</i>	Characteristics of a University of Windsor Graduate
<u>At the end of the course, the successful student will know and be able to:</u>	<u>A U of Windsor graduate will have the ability to demonstrate:</u>
Assist other students with conceptual understanding and technical trouble-shooting during assignment work.	
H. Identify creative ways to describe problems and results in visual (graphical and map-based) forms.	H. creativity and aesthetic appreciation
I. Demonstrate that models of environmental understanding are incomplete, and that continued investigation of underlying patterns and processes is necessary for improved estimation and prediction.	I. the ability and desire for continuous learning