

**Program Level Learning Outcome Assessment  
Environmental Science**

**PLO4:** Students will communicate effectively in the language of the discipline, incorporating written, oral and visual methods. Students will communicate to audiences ranging from scientific to policy oriented. Students will be prepared to become active, informed citizens ready to have an impact on society.

<b>Learning Outcome</b>	<b>Does Not Meet Expectations</b>	<b>Approaches</b>	<b>Reinforces</b>	<b>Masters</b>
Students will use language of the discipline	Unable to incorporate key ideas and vocabulary.	Utilizes key vocabulary.	Utilizes key vocabulary, concepts and theory.	Utilizes key vocabulary, concepts and theory. Writes/speaks clearly and concisely.
Students will communicate information displayed on charts, graphs, maps and other visual displays of data	Unable to describe data.	Student gives basic description including axis, units and trends.	Student goes beyond basic description, includes interpretation, context, methodology and potential flaws.	Students create their own data visualizations, explain in the context of the field.
Students will communicate to a broad range of audiences.	Unable to communicate clearly in writing or via presentation.	Students communicate basic facts without nuance or interpretation.	Students describe data and interpretation. Includes context and implications.	Demonstrates deep understanding of the data and can communicate it clearly and effectively using the language of the discipline.
Students will apply their data analysis and communication skills in an independent project.	Unable to analyze and describe data independently.	Students describes graphs and data at a rudimentary level.	Students describe and interpret data, communicate clearly and highlight the important points.	Demonstrates understanding of complex data sets, different ways to visualize and analyze data and can incorporate these skills in independent research.