

Evidence of Learning: General Education, Physical Science Courses
 Course _____

Gen Ed Learning Goal Students will demonstrate understanding of:	Measurable Learning Outcome Students will demonstrate their understanding by:	Method of Measurement Direct and Indirect Measures*	Threshold	Findings Linked to Learning Outcomes	Interpretation of Findings	Action Plan/Use of Results
Nature of Science. Scientific knowledge is based on evidence that is repeatedly examined, and can change with new information. Scientific explanations differ fundamentally from those that are not scientific.	Learning Outcome 1.	Measure 1:		Measure 1:	Measure 1	Measure 1:
		Measure 2:		Measure 2:	Measure 2:	Measure 2:

GE Learning Goal	Measurable Learning Outcome	Method of Measure.	Threshold	Findings	Interpretation	Action Plan
Integration of Science All natural phenomena are interrelated and share basic organizational principles. Scientific explanations obtained from different disciplines should be cohesive and integrated.						

*At least one measure per objective must be a direct measure.

GE Learning Goal	Measurable Learning Outcome	Method of Measure	Threshold	Findings	Interpretation	Action Plan
<p>Science and Society The study of science provides explanations that have significant impact on society, including technological advancements, improvement of human life, and better understanding of human and other influences on the earth's environment.</p>						

GE Learning Goal	Measurable Learning Outcome	Method of Measure	Threshold	Findings	Interpretation	Action Plan
<p>Problem Solving & Data Analysis Science relies on empirical data, and such data must be analyzed, interpreted, and generalized in a rigorous manner.</p>						

GE Learning Goal	Measurable Learning Outcome	Method of Measure	Threshold	Findings	Interpretation	Action Plan
<p>Organization of systems The universe is scientifically understandable in terms of interconnected systems. The systems evolve over time according to basic physical laws.</p>						

GE Learning Goal	Measurable Learning Outcome	Method of Measure.	Threshold	Findings	Interpretation	Action Plan
<p>Matter Matter comprises an important component of the universe, and has physical properties that can be described over a range of scales.</p>						

GE Learning Goal	Measurable Learning Outcome	Method of Measure.	Threshold	Findings	Interpretation	Action Plan
<p>Energy Interactions within the universe can be described in terms of energy exchange and conservation.</p>						

GE Learning Goal	Measurable Learning Outcome	Method of Measure.	Threshold	Findings	Interpretation	Action Plan
<p>Forces Equilibrium and change are determined by forces acting at all organizational levels.</p>						