

Natural Science Learning Outcomes (currently proposed version):

- Students will describe the scientific methods that lead to scientific knowledge.
- Students will report and display data collected, interpret experimental observations, and construct explanatory scientific hypotheses.
- Students will use theories and models as unifying principles to understand the natural world.
- Students will gain an understanding for how the natural sciences are used to address societal issues.

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Commented [AD(1): I think “describe” is too narrow. Other ways to show an understanding of scientific methods exist than being able to “describe” it.

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Commented [AD(2): I think “create” is stronger than “lead to”.

Commented [AD(3): I think this is stronger wording.

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Commented [AD(4): I think we need a more complete description for this SLO given that the gen ed category is called “Methods of Investigation”.

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Commented [AD(5): I think an ability to make appropriate predictions is the important way to demonstrate understanding of how scientists’ use of theories and models.

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Commented [AD(6): Make this SLO a little more inclusive. I guess “societal” could encompass anything and everything associated with human existence, but we need a nod to technology in my opinion.

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Natural Science Learning Outcomes (edits proposed by Andrew Dolby):

- Students will demonstrate understanding of the investigative methods used by scientists to create scientific knowledge.
- Students will be able to: develop explanatory hypotheses for observations, design observational studies and experiments, report and display scientific data, and interpret data in a scientifically sound manner.
- Students will be able to use theories and models as unifying principles to make predictions about natural phenomena.
- Students will demonstrate understanding of how scientific methods and resultant knowledge are applied to address specific technological and societal challenges.