

## Sample SLOs for:

### Biology

Apply the scientific process, including designing and conducting experiments and testing hypotheses.
Develop laboratory techniques (such as light microscopy, gel electrophoresis and keeping a laboratory notebook and understanding of principles of laboratory safety).
Demonstrate the ability to read, understand, and critically review scientific papers.
Prepare oral and written reports in a standard scientific format.
Recognize the relationship between structure and function at all levels: molecular, cellular, and organismal.
Diagram and explain the major cellular processes in eukaryotes and prokaryotes.
Describe the flow of genetic information, the chromosome theory of heredity and the relationship between genetics and evolutionary theory.
Evaluate the principles of evolutionary biology and identify the taxonomy and phylogenetic relationships of the major groups of organisms.
Recognize the ecological relationships between organisms and their environment.
Develop an awareness of the careers and professions available in the biological sciences.

Source: <http://www.usfca.edu/biology/outcomes.htm>

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Note: These sample SLOs are provided as a model for the creation of SLOs for your own course or program. If you have questions, or would like assistance in writing SLOs, please contact Dr. Gary Williams, Instructional Assessment Specialist, at (909) 389-3567 or [gwilliams@craftonhills.edu](mailto:gwilliams@craftonhills.edu)

