

## **Biology Graduate Program Student Learning Outcomes**

Upon successful completion of the M.S. Program in Biology, a degree recipient will be able to:

1. Critically read and comprehend original research papers in biology.
2. Write manuscripts describing experimental results in the standard format for submission to scholarly journals.
3. Apply appropriate statistical analyses to experimental design and experimental results
4. Use a variety of modern scientific instruments and describe the theoretical bases, applications, and limitations of the instruments
5. Make oral presentations in acceptable formats describing information in the scientific literature and describing personal research results.
6. Apply the scientific method to answer questions in biology through the design and conduct of hypothesis-driven experimental research projects.
7. Demonstrate a thorough and sophisticated knowledge base in cell and molecular biology and describe in detail the current knowledge in at least one specialized field of the biological sciences.