

## ASSESSMENT FOR GRADUATE BIOLOGY MAJORS

### LEARNING OUTCOMES FOR GRADUATE BIOLOGY MAJORS

Students should be able to satisfy the outcomes listed below, and be able to satisfy requirements in these areas:

1. Design three PowerPoint presentations from the primary biological literature after learning how to dissect, understand, and explain research articles.
2. Identify

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explain these research articles succinctly in front their peers. In addition, students are expected to identify a thesis research mentor by the end of the semester. In BIOL 5015, students analyze experimental data using appropriate statistical models and interpret the results. In BIOL 5100, students develop a testable hypothesis after reading and evaluating twenty primary literature articles and from other observations. They then must write a well-framed and concise research proposal based on at least one testable hypothesis, and present the written research proposal to the Department. In BIOL 5040, students acquire content knowledge in evolutionary mechanisms and latest genomics technology and apply this knowledge in solving problems in the student area of specialization.

*What we found:*