Student Learning Outcomes/Objectives, with Any Associations and Related Measures, Targets, Findings, and Action Plans

**SLO 1: Independent research**
Present effective oral and visual summaries of independent research.

**Related Measures**

**M 1: Annual presentation**
Annual presentation of independent research during “Works in Progress Seminars”. Presentation will be scored by departmental faculty using rubric.
Source of Evidence: Presentation, either individual or group
**Target:**
90% will score an average of 2.0 (all criteria met) on a departmentally approved scoring rubric once a year.

**SLO 2: Present thesis - General audience**
Orally explain the rationale, design, and analysis of a scientific study to a general scientific audience.

**Related Measures**

**M 2: Departmental seminar**
Presentation of a thesis in the form of a departmental seminar.
Source of Evidence: Presentation, either individual or group
**Target:**
90% will score an average of 2.0 (all goals met) on a departmentally approved scoring rubric. Faculty in attendance will score.

**SLO 3: Specific areas of biology**
Demonstrate mastery of concepts and experimental approaches in a specific area of biology appropriate to the student's interests.

**Related Measures**

**M 3: Student's advisory committee**
Successfully defend a written thesis to the student's advisory committee.
Source of Evidence: Senior thesis or culminating major project
**Target:**
90% will score an average of a 2.0 (goals met) on a departmentally approved scoring rubric during the closed defense of the thesis.