

Rubric for Assessing Student Learning Outcomes Biological Sciences – MS Thesis and Defense

Student Name:	
Defense Date:	
Advisor Name:	
SLO 1: Knowledge of principles and theories in biology as demon	strated in the thesis defense:
Demonstrates adequate knowledge of general principles and	
theories in biology	
Demonstrates adequate knowledge of particular subdiscipline	
of study	
SLO 2: Application of scientific methods in biology as evidenced by	ov the written thesis:
SLO 2. Application of scientific methods in biology as evidenced t	y the written thesis.
States the research problem clearly, providing motivation for	
undertaking the research	
Demonstrates sound knowledge of literature in the area, and of	
prior work on the specific research problem	
Shows a good understanding of how to use methods/tools	
effectively	
Defends use of particular methods/tools clearly and logically	
SLO 3: Effective oral communication of research in biology as evi	denced by the thesis presentation:
Provides sufficient background information to justify the project	
Clearly presents the hypotheses tested	
Clearly presents the experimental design and	
statistical/analytical tools used	
Uses slides effectively to convey content	
Provides an overall clearly conceived and designed MS thesis	
SLO 4: Effective written communication of research in biology as	evidenced by the written thesis:
States the research problem clearly, providing motivation for	
the research	
Synthesizes peer-reviewed literature appropriate for research	
topic	
Clearly describes appropriate scientific and statistical	
methods/tools	
Presents results clearly and succinctly	
Uses appropriate graphics	
Comes to conclusions that are supported by the results	