# Rubric for Assessing Student Learning Outcomes Biological Sciences - MS <br> Thesis and Defense 

## Student Name: <br> Defense Date: <br> Advisor Name:

SLO 1: Knowledge of principles and theories in biology as demonstrated in the thesis defense:

| Demonstrates adequate knowledge of general principles and <br> theories in biology | Select one: |
| :--- | :--- |
| Demonstrates adequate knowledge of particular subdiscipline <br> of study | Select one: |

## SLO 2: Application of scientific methods in biology as evidenced by the written thesis:

| States the research problem clearly, providing motivation for <br> undertaking the research | Select one: |
| :--- | :--- |
| Demonstrates sound knowledge of literature in the area, and of <br> prior work on the specific research problem | Select one: |
| Shows a good understanding of how to use methods/tools <br> effectively | Select one: |
| Defends use of particular methods/tools clearly and logically | Select one: |

SLO 3: Effective oral communication of research in biology as evidenced by the thesis presentation:

| Provides sufficient background information to justify the project | Select one: |  |
| :--- | :--- | :--- |
| Clearly presents the hypotheses tested | Select one: |  |
| Clearly presents the experimental design and <br> statistical/analytical tools used | Select one: | - |
| Uses slides effectively to convey content | Select one: | - |
| Provides an overall clearly conceived and designed MS thesis | Select one: |  |

SLO 4: Effective written communication of research in biology as evidenced by the written thesis:

| States the research problem clearly, providing motivation for <br> the research | Select one: |
| :--- | :--- |
| Synthesizes peer-reviewed literature appropriate for research <br> topic | Select one: |
| Clearly describes appropriate scientific and statistical <br> methods/tools | Select one: |
| Presents results clearly and succinctly | Select one: |
| Uses appropriate graphics | Select one: |
| Comes to conclusions that are supported by the results | Select one: |

