**M.S. in Natural Sciences Scoring Rubric 3**

**Student Learning Outcome 3: Critical Thinking**

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| --- | --- | --- |
| Student: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Artifact(s) / Activity Evaluated: |
|  |  |  |
| Date: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |
| Evaluator: | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

Items in students’ knowledge base depend on the selected program of study and stated objectives as approved by their graduate faculty committee.

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| --- | --- | --- | --- | --- |
| **Item** | **N/A** | **Unacceptable** | **Acceptable** | **Superior** |
| Demonstrates creative synthesis of solutions and alternatives by combining knowledge and information from different areas. |  |  |  |  |
| Demonstrates ability to relate theoretical concepts to practical problem solving. |  |  |  |  |
| Can predict, analyze, and defend outcomes of potential solutions. |  |  |  |  |
| Can take new information and integrate it previous information and models. |  |  |  |  |
| Demonstrates ability to formulate strategies for solving problems. |  |  |  |  |
| Can decompose a problem into subtasks with appropriate timetable. |  |  |  |  |

Elaboration of Evaluations –

|  |  |
| --- | --- |
| **N/A:** | No attempt or no effort to accomplish the task. |
| **Unacceptable:** | Student’s level of understanding has too many or too serious flaws. Some or all of the work needs to be redone to be acceptable. |
| **Acceptable:** | Student shows understanding. However, there are flaws that are evidence of some weaknesses. |
| **Superior:** | Student shows substantial understanding without obvious weaknesses. |

Comments: