Core Competency Scoring Rubric
Ferris State University

Natural Sciences – SCI4

Communicate data – Students clearly communicate scientific findings using a variety of formats (words, graphs, tables, statistical inferences, formulae, etc.) as appropriate.

Evaluated during the spring semester of even-numbered years.

Level	Description
4 – Advanced Advanced performances exceed the expectations for Ferris graduates. This work shows an effective and well-developed response to the learning outcome. These students represent the strongest fraction of our graduates.	Students are able to interpret and use scientific information in graphical representations. They are also able to encode scientific information using appropriate graphical representations.
3 – Proficient Proficient performances meet the expectations for Ferris graduates. This work demonstrates a sufficient response to the learning outcome with regard to scope and accuracy. All students are expected to attain this level of ability by graduation.	Students are able to recognize scientific information in graphical representations. They are also able to encode some scientific information using graphical representations.
2 – Progressing Developing performances approach the expectations for Ferris graduates. Although this work is more accomplished than that of novices, the scope and accuracy of the response does not yet satisfactorily address the learning outcome. This should be true of most first and second year students.	Students are able to recognize scientific information in graphical representations. Or, they are able to encode some scientific information using graphical representations.
1 – Beginning Beginning performances do not meet the expectations for Ferris graduates. This work exhibits a novice level of ability with regard to addressing the learning outcome. This is the expected skill level for our incoming freshman.	Students are unable to interpret and use scientific information in graphical representations. They are also unable to encode scientific information using appropriate graphical representations.
0 – Unsatisfactory Unsatisfactory performances neither meet the expectations for Ferris graduates nor those for incoming freshmen. This work exhibits profound deficiencies and/or is incomplete.	Students do not interpret and use scientific information in graphical representations. They are also unable to encode scientific information using appropriate graphical representations.