

### Thesis M.S. (Plan A) Assessment Rubric

	0 (Failing)	1 (Emerging)	2 (Accomplished)	3 (Exemplary)
<b>1. Students will be able to summarize key concepts across a broad base of chemistry, including at least four of the core subdisciplines (Analytical, Biological, Inorganic, Organic, and Physical) in addition to their chosen subdiscipline or thematic area of chemistry.</b>				
<b>Score:</b>	Student lacks basic knowledge in all areas	Student displays knowledge, but is weak in several key concepts	Student displays command across all areas, or great command in several areas	Student displays great knowledge of chemistry across numerous disciplines
<b>2. Students will communicate chemical topics effectively, in oral and in written contexts</b>				
<b>Score:</b>	Student cannot clearly communicate chemical topics in either written or oral contexts.	Student can sometimes communicate effectively in written or oral contexts.	Student can communicate effectively in written and oral contexts	Student is a very effective and compelling writer and speaker.
<b>3. Students are able to apply appropriate experimental design and data analysis and be able to evaluate the significance of outcomes in their area of specialization as it relates to current literature.</b>				
<b>Score:</b>	Student lacks the ability to execute appropriate experimental design and data analysis and/or interpret their data.	Student is able to describe the experimental design/data analysis and is able to interpret results with some guidance from others.	Student can adequately describe experimental design/data analysis and is able to interpret results without advisor input.	Student developed novel experimental design or data analysis and/or develops novel interpretation of research outcome.

### Committee Signatures

\_\_\_\_\_