

CHE Ph.D. Assessment Rubric

Outcome	0 (Beginning)	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).</b>				
<b>Score:</b>	Student lacks basic knowledge in all areas	Student displays knowledge of some key concepts, but is weak in others	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 evaluate and critique existing literature and assemble and develop appropriate methods for addressing research questions within their area of expertise.</b>				
<b>Score:</b>	Student has difficulty understanding the literature and lacks the ability to assemble and apply methodology.	Student can adequately evaluate existing literature and identify appropriate methods for their research.	Student can apply literature methods to their research.	Student is able to develop and apply advanced concepts to research problems
<b>3. Students will demonstrate professional independence and initiative, and will have taken responsibility for their own work.</b>				
<b>Score:</b>	Student constantly requires prompting from the advisor in order to advance their research project.	Student is leading the project and operates with periodic guidance from advisor.	Student is leading the project and operates with minimal guidance from advisor.	Student is leading the project and operates without needing guidance from advisor.

Committee Member Signatures

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_