



Chemistry Graduate Program Rubric of Learning Domains

Student Name _____

Date _____

Evaluator _____

Check the box for the applicable requirement:

- Thesis Research Plan Proposal
- Research Seminar Presentation
- Original Research Proposal
- Thesis/Dissertation Defense

Evaluation Grade	Definition
N/A	Not applicable
1	Beginning
2	In Progress
3	Good
4	Excellent

Effective Communication		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. Provides sufficient background on the subject matter		
b. Effectively defines the significance and innovation of their work		
c. Summarizes conclusions well		
d. Engages the audience		
Information Competency		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. Reflects mastery of the subject matter and includes proper references		
b. The work is organized in a coherent manner		
c. The work displays high quality of figures/tables and depth of information		
d. The writing is proficient and clear with minimal grammatical/syntax errors		
Content of the Discipline		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. The format complies with high standards of the field		

b. Properly describes techniques and instrumentation		
c. Applies the most appropriate techniques and instrumentation to complete research objectives		
d. Applies fundamental chemical concepts in the analysis of data and does not feature misconceptions		
Research and Development		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. Objectives/specific aims and corresponding hypotheses are well-defined		
b. Provides a clear and logical presentation of the methodology of experiments		
c. Provides strong data analysis/interpretation and relevant statistical analysis (where applicable)		
d. Displays high potential for research success		
Critical Thinking		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. The work reveals the ability to interconnect and extend knowledge from multiple studies/disciplines		
b. The student displays own perspective of the subject matter		
c. Provides strong quantitative/qualitative correlations		
d. Conclusions in the work demonstrate mature critical thinking for future research directions of the field. For instance, the student offers creative solutions to related real-world problems.		
e. Responses to questions reveals the ability to interconnect and extend knowledge from multiple studies/disciplines		
Social Responsibility		
Criteria	Evaluation Grade	
	Manuscript	Presentation
a. The work is an original creation of the student and does not feature any examples of plagiarism		
b. Proper acknowledgement is given to the work of others that serves as a prelude to this work		
c. The work takes into consideration chemical and biohazardous waste generation and disposal		
d. The work includes the appropriate protocols for work that involves animal and/or human subjects		

Comments:
