## **Department of Chemistry Preliminary Exam Rubric**

Student Name:		Exam Date:	
Committee:	1.	(chair)	2.
	3.		4.

	Excellent (4 pts)	Good (3 pts)	Fair (2 pts)	Poor (1 pt)	Score
Mastery of Chemical Concepts	Demonstrates in- depth knowledge of concepts in more than one sub- discipline of chemistry.	Demonstrates in- depth knowledge of chemical concepts in primary sub- discipline of chemistry and some knowledge of concepts other sub- disciplines of chemistry.	Demonstrates adequate knowledge of chemical concepts in primary sub- discipline, but has limited knowledge in other sub- disciplines.	Demonstrates limited knowledge of chemical concepts.	
Literature Review	Demonstrates indepth knowledge of the relevant scientific literature. Correctly identifies and illustrates the importance of unanswered questions in the field and presents research project within the context of these questions.	Demonstrates sufficient knowledge of the relevant scientific literature. Correctly identifies and understands the importance of unanswered questions in the field.	Demonstrates adequate knowledge of the relevant scientific literature, but does not identify unanswered questions in the field.	Demonstrates limited knowledge of the relevant scientific literature.	
Experimental Approach	The experimental approach is clearly defined and logical. The expected outcomes are discussed and are plausible. Alternative outcomes have been sufficiently addressed.	The experimental approach is clearly defined and logical. The expected outcomes are discussed and are plausible. Alternative outcomes have not been sufficiently addressed.	The experimental approach is clearly defined and logical, however the expected outcomes are either not discussed or are not plausible.	The experimental approach is neither clearly defined nor logical. The expected outcomes are not discussed.	

	Excellent (4 pts)	Good (3 pts)	Fair (2 pts)	Poor (1 pt)	Score
Research Progress	Significant progress has been made towards collecting data, developing a method or designing instrumentation.	Sufficient progress has been made towards collecting data, developing a method or designing instrumentation.	Some progress has been made towards collecting data, developing a method or designing instrumentation.	Limited progress has been made towards collecting data, developing a method or designing instrumentation.	
Oral Communication	Results and conclusions are not only successfully summarized and supported, but are also analyzed in the context of the field.	Successfully communicates results and conclusions, supporting information and explanations are provided.	Adequately communicates results and conclusions, however supporting information and explanations are missing.	Fails to clearly communicate results and conclusions.	
Overall Evaluation	Excellent: Pass	Good: Pass	Fair: Cond. pass	Poor: Fail	
			Conditions:	Retake: Yes/No	
				Timeline:	
Comments:					
Student Signature:		Chair	Signature:		

Please return this document to the Chemistry Graduate Office, Room 114 Chemistry