Thesis M.S. (Plan A) Assessment Rubric, Oral Qualifying Exam

	0	1	2	3
		concepts across a broad base of chemi	istry, including at least four o	f the core subdisciplines
(Anal	lytical, Biological, Inorganic, Orga			
Score:	Student lacks basic knowledge in	Student displays knowledge, but is	Student displays command	Student displays great
	all areas	weak in several key concepts	across all areas, or great	knowledge of chemistry
			command in several areas	across numerous disciplines
2. Stude	ents will be able to discuss the cher	nistry of their chosen subdiscipline or	thematic area of chemistry, s	such as biosensors, materials
chem	nistry, synthesis, etc.			
Score:	Student lacks the knowledge to	Student can discuss their subdiscipline	Student can discuss the	Student can discuss their
	discuss their subdiscipline.	with prompting.	subdiscipline.	subdiscipline with authority.
3. Studen	nts will communicate chemical top	oics effectively, in oral and in written c	ontexts	
	_			1
Score:	Student cannot clearly	Student can sometimes communicate	Student can communicate	Student is a very effective and
	communicate chemical topics in	effectively in written or oral contexts.	effectively in written and	compelling writer and
	either written or oral contexts.		oral contexts	speaker.
4. Studen	nts will interpret and demonstrate	procedures from the literature.		
Score:	Student is not able to interpret	Student is not able to interpret	Student is able to interpret	Student is able to interpret
	experimental procedures from	experimental procedures from the	experimental procedures	experimental and carry out
	the literature.	literature without significant	from the literature with	procedures from the
		assistance.	some assistance.	literature.
5. Stude	ents will apply the principles and a	oplications of modern instrumentation	, experimental design, and d	ata analysis and evaluate the
	ficance of outcomes in their area o			•
Score:	Student lacks the ability to	Student can apply methodology with	Student can read and apply	Student can identify and
	assemble and apply	guidance from others.	literature methods.	apply literature methods to
	methodology.			their research.
6. Studen	nts will analyze their collected exp	erimental data and examine the signif	icance of their results.	
Score:	Student is not able to determine	Student is not able to determine the	Student can see the	Student can examine their
Score.	the significance of their results.	significance of the results without a	significance of the data with	data and determine the
	the significance of their results.	great deal of assistance.	some assistance.	significance.

Committee Signatures
