

Assessment of Abilities						
Master of Science in Civil Engineering (MSCE)						
Thesis Option						
Name:		Student I.D.:		Semester:		
Graduate Committee:	Chair/Adviser					
	Member 1					
	Member 2					
	Member 3					
Outcome		Assessment of Abilities Score (1-5 scale)				
		Chair	Member 1	Member 2	Member 3	Average
Apply knowledge of mathematics, science, and engineering to solve advanced-level engineering problems in civil engineering.						
<i>Comments:</i>						
Locate and evaluate pertinent published literature relevant to a given topic, and apply the information gained to a design, analysis, or research effort.						
<i>Comments:</i>						
Organize and deliver effective communications.						
<i>Comments:</i>						
Design a system, component, or process to meet desired needs.						
<i>Comments:</i>						
Design and conduct experiments, and analyze and evaluate the resulting data.						
<i>Comments:</i>						

Assessment of Abilities					
Master of Science in Civil Engineering (MSCE)					
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Rubric Scoring Guide					
Outcome	1	2	3	4	5
Apply knowledge of mathematics, science, and engineering to solve advanced-level engineering problems in civil engineering.	<i>Solutions contain numerous errors and show no creativity or innovation</i>	<i>Solutions contain errors and show little creativity or innovation</i>	<i>Solutions mostly correct but show little creativity or innovation</i>	<i>Solutions correct and show some creativity and/or innovation</i>	<i>Correct solutions which exhibit a high degree of creativity and/or innovation</i>
Locate and evaluate pertinent published literature relevant to a given topic, and apply the information gained to a design, analysis, or research effort.	<i>Review is incomplete, poorly evaluated, and misapplied</i>	<i>Review is fairly complete, minimally evaluated, and fairly applied</i>	<i>Review is substantially complete, adequately evaluated, and adequately applied</i>	<i>Review is complete, well evaluated, and well applied</i>	<i>Review is complete, excellently evaluated, and excellently applied</i>
Organize and deliver effective communications.	<i>Written and verbal work is poorly organized and poorly delivered</i>	<i>Written and verbal work is organized, but poorly delivered</i>	<i>Written and verbal work is organized and adequately delivered</i>	<i>Written and verbal work is well organized and well delivered</i>	<i>Written and verbal work is well organized and excellently delivered</i>
Design a system, component, or process to meet desired needs.	<i>Designs of inferior quality; cannot be used without major modification</i>	<i>Designs of poor quality; should not be used without substantial modification</i>	<i>Designs of average quality; should not be used without modification</i>	<i>Designs of good quality; may be used with only minor modifications</i>	<i>Designs of excellent quality; may be used without modification</i>
Design and conduct experiments, and analyze and evaluate the resulting data.	<i>Design is missing; experiments conducted with significant errors; data analysis is superficial; evaluation of results is incomplete</i>	<i>Design is incomplete; experiments conducted with errors – but errors are noted; data analysis is superficial; evaluation of results is superficial</i>	<i>Design is adequate; experiments conducted correctly; data analysis complete; results evaluated adequately</i>	<i>Design is appropriate; experiments conducted correctly; data analysis and evaluation of results are well done</i>	<i>Design is innovative; experiments conducted flawlessly; data analysis and evaluation of results are conducted excellently</i>