

Evaluator _____

Student Name _____

The William States Lee College of Engineering - Ph.D. in Infrastructure and Environmental Systems (INES)

Graduate Student Learning Outcomes: Oral Presentations

(Rev. 02/16/2012) (2nd Rev. 03/25/2013) (3^r Rev. 02/14/2018)

GLO #1: Students analyze and evaluate advanced topics in engineering				
Score (1,2,3)	Criteria	1 Does Not Meet Expectations	2 Meets Expectations	3 Exceeds Expectations
	OP1a: <i>Describes the scope and context of the defined problem</i>	<ul style="list-style-type: none"> Does not adequately describe the scope and context of the problem; Important details are missing 	<ul style="list-style-type: none"> Adequately describes the scope and context of the problem; Sufficient level of detail is provided 	<ul style="list-style-type: none"> Comprehensively describes the scope and context of the problem; Level of detail offers additional breadth, depth, and/or new insights
	OP1b: <i>Demonstrates existing knowledge and emerging research on the topic</i>	<ul style="list-style-type: none"> Does not adequately demonstrate knowledge of existing and emerging research on the topic; Important details are missing 	<ul style="list-style-type: none"> Adequately demonstrates knowledge of existing and emerging research on the topic; Sufficient level of detail is provided 	<ul style="list-style-type: none"> Comprehensively describes existing and emerging research on the topic; Level of detail offers additional breadth, depth, and/or new insights
	OP1c: <i>Compares and contrasts relevant interdisciplinary aspects of the topic</i>	<ul style="list-style-type: none"> Does not adequately compare or contrast relevant aspects of the topic; Important similarities or distinctions are missing 	<ul style="list-style-type: none"> Adequately compares/contrasts relevant aspects of the topic; Sufficient level of similarities and distinctions are provided 	<ul style="list-style-type: none"> Comprehensively compares or contrasts relevant aspects of the topic; Level of detail in similarities and distinctions offers additional breadth, depth, and/or new insights
	OP1d: <i>Evaluates scope of analytical methods/tools and selects the most appropriate one(s)</i>	<ul style="list-style-type: none"> Does not adequately evaluate the scope of analytical methods/tools and/or did not select the most appropriate one; Some viable options were not considered or the best was not chosen 	<ul style="list-style-type: none"> Adequately evaluates the scope of analytical methods/tools and selected the most appropriate one; All obvious options were considered and the best was chosen 	<ul style="list-style-type: none"> Comprehensively evaluates the scope of analytical methods/tools and selected the most appropriate one; New or optional analytical tools were also considered and the best was chosen
	OP1e: <i>Identifies assumptions and constraints relevant to the analytical methods or tools selected</i>	<ul style="list-style-type: none"> Does not adequately identify assumptions and constraints relevant to the analytical method selected; Important assumptions or constraints are missing 	<ul style="list-style-type: none"> Adequately identifies assumptions and constraints relevant to the analytical method selected; All obvious assumptions and constraints are identified 	<ul style="list-style-type: none"> Comprehensively identifies assumptions and constraints relevant to the analytical method selected; Assumptions and constraints beyond the obvious offer additional breadth, depth, and/or new insights

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Score (1,2,3)	Criteria	1 Does Not Meet Expectations	2 Meets Expectations	3 Exceeds Expectations
	OP1f: <i>Develops an appropriate model for analysis</i>	<ul style="list-style-type: none"> Does not adequately develop an appropriate model for analysis; Important aspects of the model are missing or extraneous aspects are included 	<ul style="list-style-type: none"> Adequately develops an appropriate model for analysis; All obvious aspects of the model are included and justified 	<ul style="list-style-type: none"> Comprehensively develops an appropriate model for analysis; New and relevant aspects of the model offer additional breadth, depth, and/or new insights
	OP1g: <i>Analyzes topic beyond the previous level of coursework (BS or MS)</i>	<ul style="list-style-type: none"> Does not adequately analyze topic at the MS/PhD level; Important aspects of analysis/evaluation is missing 	<ul style="list-style-type: none"> Adequately analyzes topic at the MS/PhD level; Sufficient level of analysis/evaluation is provided 	<ul style="list-style-type: none"> Comprehensively analyzes topic at the MS/PhD level; Level of analysis/evaluation offers additional breadth, depth, and/or new insights
	OP1h: <i>Evaluates topic beyond the previous level of coursework (BS or MS)</i>	<ul style="list-style-type: none"> Does not adequately evaluate topic at the MS/PhD level; Important aspects of analysis/evaluation is missing 	<ul style="list-style-type: none"> Adequately evaluates topic at the MS/PhD level; Sufficient level of analysis/evaluation is provided 	<ul style="list-style-type: none"> Comprehensively evaluates topic at the MS/PhD level; Level of analysis/evaluation offers additional breadth, depth, and/or new insights
	OP1i: <i>Interprets results within the scope and context of the defined problem</i>	<ul style="list-style-type: none"> Does not adequately interpret results within the scope and context of the defined problem; Interpretation is incomplete or lacks rationale 	<ul style="list-style-type: none"> Adequately interprets results within the scope and context of the defined problem; Interpretation is complete and rational 	<ul style="list-style-type: none"> Comprehensively interprets results within the scope and context of the defined problem; Interpretation is complete, rational; Offers additional breadth, depth, and/or new insights
	OP1j: <i>Makes appropriate recommendations and/or identifies next steps</i>	<ul style="list-style-type: none"> Does not make recommendations or identify next steps or Recommendations and next steps are not justified based on results 	<ul style="list-style-type: none"> Makes recommendations and identifies next steps that are commensurate with results 	<ul style="list-style-type: none"> Makes recommendations and identifies next steps beyond the scope of the project but which have other relevance

GLO #1 SCORE: _____/30

PERFORMANCE TARGET: 24/30 (80%)

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GLO #2: Students communicate technical information.				
Score (1,2)	Criteria	1 Does Not Meet Expectations	2 Meets Expectations	Exceeds Expectations
	OP2a: Delivery follows a logical sequence	Lacks a logical sequence; key aspects of the project are unclear and/or lack a unified rationale	Follows a logical sequence; key aspects of the project are understood and present a unified rationale	NA
	OP2b: Delivery is appropriately paced	Does not engage audience; pace too fast or too slow	Engages the audience at an appropriate pace	NA
	OP2c: Delivery presents a convincing argument	Does not offer a convincing case; lacks substance and rationale based on scientific method	Offers a convincing case; substantive and rational based on identified method	NA
GLO #2 SCORE: _____/6		PERFORMANCE TARGET: 6/6 (100%)		
TOTAL SCORE: _____/36				
PERFORMANCE TARGET: 30/36 (83%)				
COMMENTS (required for total score < 26/36 or for any criterion with a score of 1):				