Evaluator	Student Name

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

Graduate Student Learning Outcomes: Written Reports (Rev. 02/16/2012) (2nd Rev. 03/25/2013) (3r Rev. 02/14/2018)

	GLO #1: Students analyze and evaluate advanced topics in INES				
Score (1,2,3)	Criteria	1 Does Not Meet Expectations	2 Meets Expectations	3 Exceeds Expectations	
	OP1a: Describes the scope an context of the defined problem	 Does not adequately describe the scope and context of the problem; Important details are missing 	 Adequately describes the scope and context of the problem; Sufficient level of detail is provided 	 Comprehensively describes the scope and context of the problem; Level of detail offers additional breadth, depth, and/or new insights 	
	OP1b: Demonstrates existing knowledge and emerging research on the topic	 Does not adequately demonstrate knowledge of existing and emerging research on the topic; Important details are missing 	 Adequately demonstrates knowledge of existing and emerging research on the topic; Sufficient level of detail is provided 	 Comprehensively describes existing and emerging research on the topic; Level of detail offers additional breadth, depth, and/or new insights 	
	OP1c: Compares and contrasts relevant interdisciplinary aspects of the topic	 Does not adequately compare or contrast relevant aspects of the topic; Important similarities or distinctions are missing 	 Adequately compares/contrasts relevant aspects of the topic; Sufficient level of similarities and distinctions are provided 	 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: Evaluates scope of analytical methods/tools and selects the most appropriate one(s)	 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 	 Adequately evaluates the scope of analytical methods/tools and selected the most appropriate one; All obvious options were considered and the best was chosen 	 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: Identifies assumptions and constraints relevant to the analytical methods or tools selected	 Does not adequately identify assumptions and constraints relevant to the analytical method selected; Important assumptions or constraints are missing 	 Adequately identifies assumptions and constraints relevant to the analytical method selected; All obvious assumptions and constraints are identified 	 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: Develops an appropriate model for analysis	 Does not adequately develop an appropriate model for analysis; Important aspects of the model are missing or extraneous aspects are included 	 Adequately develops an appropriate model for analysis; All obvious aspects of the model are included and justified 	 Comprehensively develops an appropriate model for analysis; new and relevant aspects of the model offer additional breadth, depth, and/or new insights
	OP1g: Analyzes topic beyond the previous level of coursework (BS or MS)	 Does not adequately analyze topic at the MS/PhD level; Important aspects of analysis/ evaluation is missing 	 Adequately analyzes topic at the MS/PhD level; Sufficient level of analysis/evaluation is provided 	 Comprehensively analyzes topic at the MS/PhD level; level of analysis/evaluation offers additional breadth, depth, and/or new insights
	OP1h: Evaluates topic beyond the previous level of coursework (BS or MS)	 Does not adequately evaluate topic at the MS/PhD level; Important aspects of analysis/evaluation is missing 	 Adequately evaluates topic at the MS/PhD level; Sufficient level of analysis/evaluation is provided 	 Comprehensively evaluates topic at the MS/PhD level; Level of analysis/evaluation offers additional breadth, depth, and/or new insights
	OP1i: Interprets results within the scope and context of the defined problem	 Does not adequately interpret results within the scope and context of the defined problem; Interpretation is incomplete or lacks rationale 	 Adequately interprets results within the scope and context of the defined problem; Interpretation is complete and rational 	 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: Makes appropriate recommendations and/or identifies next steps	 Does not make recommendations or identify next steps or Recommendations and next steps are not justified based on results 	Makes recommendations and identifies next steps that are commensurate with results	 Makes recommendations and identifies next steps beyond the scope of the project but which have other relevance
GLO #1	. SCORE:/30		PERFORMAN	NCE TARGET: 24/30 (80%)

core (1,2)	Criteria	1 Does Not Meet Expectations	2 Meets Expectations	Exceeds Expectation
	OP2a: Document conforms to format specified by the Graduate School (style, font size and type, margins, spacing, pagination, numbering, and organization)	Does not conform to format specified by the Graduate School	Conforms to format specified by the Graduate School	NA
	<i>OP2b:</i> Referencing format conforms to discipline standards	Does not conform to referencing format of the discipline	Conforms to referencing format of the discipline	NA
	OP2c: Quality of content, organization, and coherence of writing is at a level expected of professional publications	Is not at a level expected of professional publications; needs extensive revision	Is at a level expected of professional publications with minor or no revision	NA
SLO#	2 SCORE:		PERFORMANCE TARGET: 6/6 (1009	%)
ΌΤΑ	L SCORE:/36		PERFORMANCE TARGET: 30/36 (83%	6)
OMI	MENTS (required for total score < 26/36 or for any cri	terion with a score of 1):		