



COLLEGE of COMPUTER STUDIES

RUBRIC OF ASSESSMENT

1ST Semester S/Y 2025-2026

Course: **BSCS 4**
 Subject: **MODELING AND SIMULATION**
 Examination Period: **FINAL EXAMINATION**

Units: **3** Lecture: **2** Lab: **1**
 Subject Code: **CSEC 413**
 Date: **DECEMBER 7 – 13, 2025**

Project				
Use Python to model, simulate, analyze, or solve one real world engineering problem. This will also serve as final examination and project.				
CRITERIA	RATING			
	EXCELLENT (20 points)	GOOD (15 points)	FAIR (10 points)	POOR (5 points)
PROJECT DEFINITION & MODELING	Project model (synthetic data or game) is complex, well-defined, and mathematically sound. Any "tweaked" or comparative models are non-trivial.	Project model (synthetic data or game) is complex, well-defined, and mathematically sound. Any "tweaked" or comparative models are non-trivial.	Project model (synthetic data or game) is complex, well-defined, and mathematically sound. Any "tweaked" or comparative models are non-trivial.	Project model (synthetic data or game) is complex, well-defined, and mathematically sound. Any "tweaked" or comparative models are non-trivial.
EXPLORATORY DATA ANALYSIS (EDA)	EDA is deep and insightful, with 3+ relevant, well-labeled visualizations. Analysis correctly focuses on the appropriate data (e.g., generated data or simulated outcomes).	EDA is deep and insightful, with 3+ relevant, well-labeled visualizations. Analysis correctly focuses on the appropriate data (e.g., generated data or simulated outcomes).	EDA is deep and insightful, with 3+ relevant, well-labeled visualizations. Analysis correctly focuses on the appropriate data (e.g., generated data or simulated outcomes).	EDA is deep and insightful, with 3+ relevant, well-labeled visualizations. Analysis correctly focuses on the appropriate data (e.g., generated data or simulated outcomes).
SIMULATION & ANALYSIS	Simulation/modeling is applied correctly and robustly (e.g., 10k+ trials). Evaluation uses multiple, appropriate metrics, and any comparative analysis is insightful and quantitatively strong.	Simulation/modeling is applied correctly and robustly (e.g., 10k+ trials). Evaluation uses multiple, appropriate metrics, and any comparative analysis is insightful and quantitatively strong.	Simulation/modeling is applied correctly and robustly (e.g., 10k+ trials). Evaluation uses multiple, appropriate metrics, and any comparative analysis is insightful and quantitatively strong.	Simulation/modeling is applied correctly and robustly (e.g., 10k+ trials). Evaluation uses multiple, appropriate metrics, and any comparative analysis is insightful and quantitatively strong.
CODE QUALITY & EXECUTION	Code is clean, well-commented, and runs without errors. It clearly implements the models described in the documentation.	Code is clean, well-commented, and runs without errors. It clearly implements the models described in the documentation.	Code is clean, well-commented, and runs without errors. It clearly implements the models described in the documentation.	Code is clean, well-commented, and runs without errors. It clearly implements the models described in the documentation.
DOCUMENTATION & VIDEO	Documentation.pdf perfectly follows all 7 project steps.	Documentation.pdf is present but is missing a section or is brief.	Documentation.pdf is incomplete and hard to follow.	Documentation or video (or both) are missing.



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	Video.mp4 is clear, professional, within the 10-15 min limit, and effectively demonstrates the project.	Video is clear but may be too long/short or just reads the documentation without a demo.	<EOD_R/>Video is poorly-planned, has low audio/visual quality, or fails to show the project.	
TOTAL	100	75	50	25

Prepared by:

Reviewed & Validated:

Approved:

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