MATH 5355 Final Project Rubric

Category	Exemplary (A)	Satisfactory (B)	Emerging (C)	Not Demonstrated (D)
 Biological Application Details on biological system Cite literature 	 Good literature sources cited Detailed presentation of biological problem to be modeled 	 Limited literature sources cited Limited detail on presentation of biological system 	 Limited literature sources cited Limited detail on presentation of biological system 	 Lack or cited literature and/or lack of detail on biological description and application
 Model Development Model formulation Variables/parameters defined Clear Model assumptions 	 Correct model and explanation Variables and parameters defined correctly Units defined and correct 	 Mostly correct model and explanation Most variables and parameters defined correctly Units defined and mostly correct 	 Somewhat correct model and explanation Some variables and parameters defined correctly Units defined and somewhat correct 	 Incorrect model and explanation Variables and parameters not defined Units missing or incorrect
Model analysis Computational methods Analytical solutions 	 Correct numerical solution to model Appropriate analytical analysis 	 Minor errors in numerical solution to model Minor errors in analytical analysis 	 Major errors in numerical solution to model Major errors in analytical analysis 	Completely incorrect or missing numerical solutions and/or analytical analysis
Interpretation and Next Steps Interpretation of results Conclusions Future directions All discussed in context of biological problem	 Correct interpretation of results Correct conclusions drawn from results Next steps are discussed and appropriate 	 Mostly correct interpretation of results Mostly correct conclusions drawn from results Next steps are discussed and mostly appropriate 	 Partially correct interpretation of results Somewhat correct conclusions drawn from results Next steps are discussed and somewhat appropriate 	 Incorrect interpretation of results Incorrect conclusions drawn from results Next steps are not discussed or not appropriate
 Data Visualization Readability of graphs Units on labels 	 All graphs are clear, readable All graphs are labeled and units are defined Correct choices of graphs for all figures 	 Most graphs are clear Graphs are labeled and units are defined Most graphs are labeled and units are defined Correct choices of graphs for most figures 	 Some graphs are clear Some graphs are labeled and units are defined Correct choices of graphs for some figures 	 Graphs are unclear Graphs are not labeled and/or units are not defined Incorrect choices of graphs for figures