

Final Project Assessment of
Intended Learning Outcomes
Math 236

CATEGORY	EXEMPLARY (3)	SATISFACTORY (2)	EMERGING (1)	NOT DEMONSTRATED (0)
ILO 1: Model Development <ul style="list-style-type: none"> • Model formulation • Variables/Parameters defined • Model Assumptions 	<ul style="list-style-type: none"> • Correct model and explanation • Variables and parameters defined correctly • Units defined and correct 	<ul style="list-style-type: none"> • Mostly correct model and explanation • Most variables and parameters defined correctly • Units defined and mostly correct 	<ul style="list-style-type: none"> • Somewhat correct model and explanation • Some variables and parameters defined correctly • Units defined and somewhat correct 	<ul style="list-style-type: none"> • Incorrect model and explanation • Variables and parameters not defined • Units missing or incorrect
ILO 2: Computational Methods <ul style="list-style-type: none"> • Parameter estimation • Numerical solution to discrete or differential equations 	<ul style="list-style-type: none"> • Appropriate methods used to estimate parameters • Correct numerical solution to model 	<ul style="list-style-type: none"> • Minor errors in estimating parameters • Minor errors in numerical solution to model 	<ul style="list-style-type: none"> • Many errors in estimating parameters but correct approach • Many errors in numerical solution to model 	<ul style="list-style-type: none"> • Parameter estimation not included or incorrect methods used for analysis • Numerical solution is not included
ILO 3: Interpretation and Next Steps <ul style="list-style-type: none"> • Interpretation of results • Conclusions • Future directions (all discussed in context of biological problem) 	<ul style="list-style-type: none"> • Correct interpretation of results • Correct conclusions drawn from results • Next steps are discussed and appropriate 	<ul style="list-style-type: none"> • Mostly correct interpretation of results • Mostly correct conclusions drawn from results • Next steps are discussed and mostly appropriate 	<ul style="list-style-type: none"> • Partially correct interpretation of results • Somewhat correct conclusions drawn from results • Next steps are discussed and somewhat appropriate 	<ul style="list-style-type: none"> • Incorrect interpretation of results • Incorrect conclusions drawn from results • Next steps are not discussed or not appropriate
ILO 4: Data Visualization <ul style="list-style-type: none"> • Readability of graphs • Units on labels • Choice of graph 	<ul style="list-style-type: none"> • All graphs are clear, readable • All graphs are labeled and units are defined • Correct choices of graphs for all figures 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Some graphs are clear • Some graphs are labeled and units are defined • Correct choices of graphs for some figures 	<ul style="list-style-type: none"> • Graphs are unclear • Graphs are not labeled and/or units are not defined • Incorrect choices of graphs for figures
ILO 6: Lab Methods <ul style="list-style-type: none"> • Lab technique • Experimental design • Data collection 	<ul style="list-style-type: none"> • Correct lab technique implemented • Experiment is designed to answer question of interest • No errors in data collection 	<ul style="list-style-type: none"> • Mostly correct lab technique implemented • Minor improvements could have been implemented to improve experimental design • Minor errors in data collection 	<ul style="list-style-type: none"> • Partially correct lab technique implemented • Major improvements could have been implemented to improve experimental design • Substantial errors in data collection 	<ul style="list-style-type: none"> • Incorrect lab technique implemented • Experiment not designed to answer question of interest • Data not collected