

Item	Criteria	Points Available
Abstract	The abstract is < 100 words, it summarizes the problem, summarizes the motivation for studying this problem, summarizes the approach, and summarizes the results. The abstract is clear and well-written.	5
Introduction	The introduction effectively introduces an appropriate problem. It gives useful background (mathematical/biological/physical/etc). It clarifies why the problem is interesting and worthwhile, and is clearly written, as well as easy to understand.	10
Model Description	The model is described thoroughly. Equations are derived or simplified correctly. If appropriate, the model is given in a non-dimensional form. Any algorithms that are used later are explicated here. All derivations include appropriate prose and are clear and easy to follow.	15
Analysis	The analysis of the model explores sensitivity to interesting parameter combinations or makes progress towards the central question of the project. The analysis is appropriate given the goals of the project. The analysis includes meaningful plots with appropriate labels, along with explanations introducing and explaining each figure (1 paragraph or more per figure). The behavior of the modeled system as a function of time is made clear.	15
Discussion	The discussion section comments on why the behavior of the model with respect to the parameters makes sense. Where appropriate (either in section 3 or section 4), highlight what new things are learned from the model that were not clear at the outset. The discussion is thorough and effectively contextualizes the results. The discussion includes a mention of any shortcomings of the analysis.	15
Conclusion	Is a brief summary of the motivation and discussion.	10
Collaboration and Acknowledgements	An acknowledgements and collaboration section is included before the references (does not count towards page limit). This sections details any additional (re)sources the author used, any assistance they had from peers or teaching staff, and how the author assisted others in the class with modeling problems related to the final project. Here, any use of ChatGPT, GPT4, Gemini, Bard, or any other generative AI model should be clearly outlined, detailing which model was used and how, prompting strategies, and in what way it assisted towards the final work.	5
Mechanics of Report	The report is 4–6 pages long, is single spaced, and has correct font size (12pt). All plots in the report are referenced from within the text. All appropriate information is included in the report. No repetitive or unnecessary information is included. There is a references section that cites websites, books, or other resources that were consulted (does not count towards page limit). The writing is clear and the report is well written. The report is in pdf format.	10
Code	The code is commented in IPython notebooks, Python files, (or any common coding language) or a linked GitHub repository. Variable names are descriptive, and the code is generally well-structured and understandable. The code works. All code is included for any plots or other results that involved a code-based analysis. If not contained in a linked and accessible repository, the code is included either verbatim at the end of the LaTeX-rendered pdf file or converted to a legible pdf and attached at the end of the written report.	10
Presentation	Presentation was the correct length, and ran smoothly. It effectively conveyed what was interesting about the problem, along with selected results and conclusions (as appropriate given the time limit).	5
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