

Project 2 Report Formatting

MAE 341: Spaceflight

Overview

Your Project 2 report should follow a **lab report style**, similar to your last project. The goal is to clearly communicate your results, visuals, and interpretations—not just list answers.

Structure

- **Title Page:** Include your name, date, course, and project title.
- **Brief Introduction:** A few sentences summarizing what the project explores.
- **Main Sections:** One for each exercise or major part of the project. Each section should include:
 - A short description of what the exercise investigates.
 - Relevant plots, figures, or screenshots from STK (as required).
 - Explanations of what you observed and what the results mean physically (e.g., for an actual satellite).
 - Answers to any specific questions listed in the instructions.
- **Brief Conclusion:** Summarize what you learned or key takeaways.

Writing Expectations

- Use **complete sentences and paragraphs**, not short bullet points.
- For each simulation or scenario, describe what you did, what parameters you changed, and what you learned.

Figures and Visuals

- Integrate visuals **within the text**, not at the end.
- **Label all figures** (e.g., “Figure 3 – Orbital Radius with Drag Enabled”).
- Reference each figure in your discussion (e.g., “As shown in Figure 2...”).
- Include the **STK plots or images** that demonstrate your findings for each part. This is the most important part of the project: you must show you actually completed the STK analysis. (You do not need to show every single step, but include the key results for each section and any other relevant visuals.)

Citations

If you used any online resources or outside references, **cite them properly** within your report or in a short references section. This includes STK tutorials or other web-based materials.

Section-Specific Notes

Some sections include their own instructions. For example, Part 2.2.1 of the assignment states:

“Explore a few different scenarios and copy plots into your homework report; be sure to note which force models are contributing to which behavior in the Orbital Radius plot.”

Follow these specific directions carefully as you complete each part.

Length and Depth

- Your analysis does not need to be extremely detailed—about **1–2 paragraphs per exercise** is sufficient.
- Focus on demonstrating understanding of the physics and clear communication of results.