

NE 155
Analysis Final Project Rubric

The final paper should be ~4-6 pages per team member and no longer than 8 pages per team member (journals have page limits too). This may vary based on the specific project; please use your best judgment. Please include these items as clearly labeled sections in the final report:

1. **Introduction:** What are you trying to accomplish and why? Also preview what you are going to talk about.
2. **Problem Description:** Describe the problem you are solving in this work and explain how it will help you find out the thing you told us about in the introduction.
3. **Description of Work:** What did you do to perform your analysis? This can include any models you built, data you collected, strategies you needed for evaluation, etc.
4. **Results:** What did you find out?
5. **Conclusions:** What do your findings mean? How does that relate to the goal you laid out in the introduction?
6. **References:** You should have references that you cite in your paper.

If you want feedback, then you are welcome to turn in a mid-project report. This is not required or graded, but a way for you to get feedback and formal course corrections. In the mid-project report please replace “Conclusions” with **Plans for Completion** and keep in mind that “Results” will be preliminary or possibly empty. The first three sections don’t have to be completely polished, but they should at least be very solid drafts. The better they are when I read them the more useful the feedback will be. This should be no longer than 4 pages per team member (this is similar to a conference paper or summary).

Please include these same items in your final presentation. The presentations should be approximately 15 minutes. If a team project is done, the presentation must be clearly separated to highlight each member’s work.

Finally your code will be graded on readability, documentation and testing. In other words, assume someone is going to follow you on this project. The code and paper should provide all of the details needed without any additional input from you, the author. I will not grade efficiency of the code.

Notes for writing papers properly:

- If you include figures, use a Figure number and caption; refer to the figure from within the text according to the IEEE style guide.
- You may need to number equations and refer to them in the text.
- *Use section headings for the requested sections.*

- In the introduction, discuss what is coming up in the paper.
- In the conclusions, discuss what you told us in the paper.
- If you talk about a code (that you didn't write yourself), you need to include a reference for that code.
- For the final report, it's a good idea to include enough information for the work to be reproducible. To avoid making the report filled with mundane details you can put some items in an appendix or repository that you reference. Code documentation also serves this purpose.
- Common grammar errors: that vs. which, use vs. utilize, due to vs. because of.

I will use the following rubric for evaluating the paper:

Category	Possible Points	Earned Points
Correct Approach taken	10	
Work correctly implements approach	10	
Goal, problem solved, and analysis conducted have an appropriate logical flow	12	
Conclusions are supported by the results	10	
Complete sentences; correct grammar and spelling	8	
Sources properly documented	5	
Total	55	

This rubric is for evaluating the presentation:

Category	Possible Points	Earned Points
Topic motivation is clear	3	
Explanation of work is understandable, correct, and supports the motivation	7	
Results and conclusions are clearly communicated	6	
Good presentation skills: eye contact, volume, clarity of slides, etc.	6	
Appropriate presentation length	3	
Total	25	

This rubric is for evaluating the code:

Category	Possible Points	Earned Points
Code is clearly documented	10	
Test functions exist for each function/class	10	
Total	20	