# Senior Project Report Guideline

Consider your senior project report as one of the most important report you have ever written. Treat it with care and importance.

The following checklist clarifies the expected criteria and hopefully will help you organize your senior project report.

### Length of Report: Typically the length of the report is 30 - 50 pages.

* + **Report:** Your report should be double spaced. You must follow the same page numbering system required in the Turabian manual. (Refer to our library tutorials for samples.)
  + Headings of Report: Carefully consider the hierarchy of the ideas you wish to present, and use headings to convey the sequence and levels of importance. Headings help a reader grasp the report’s outline and relative importance of the parts of the report.
  + Transition paragraph: Include some transition paragraphs to assist the reader follow your logic.
  + Tables and Figures: To report the data, choose the medium that presents them clearly and economically. Tables provide exact values and can efficiently illustrate main effects. Figures of professional quality attract the reader’s eye and best illustrate interactions and general comparisons, but they are not quite as precise as tables. Summarizing the results and the analysis in tables and figures instead of text may be helpful. When you use tables or figures, be certain to mention all of them in the text. Refer to all tables as *tables* and to all graphs, pictures, or drawings as *figures*. Tables and figures supplement the text; they cannot do the entire job of communication. Always tell the reader what to look for in tables and figures, and provide sufficient explanation to make them readily intelligible.
  + Senior Project Report: Your senior project report must include the following in the proper order:

1. **Cover page:** Follow the Turabian manual for a sample.
   1. Be consistent with the font style. Either have everything all caps (ex. CAPS) or as a Title (ex. Title Page).
   2. Title: A title should summarize the main idea of the report simply and, if possible, with style. It should be a concise statement of the main topic and should identify the actual issues under investigation. A title should be fully explanatory when stand alone. Although its principal function is to inform readers about the study, a title is also used as a statement of report content for abstracting and information services.
   3. Author: The preferred form of an author’s name is first name, middle initial, and last name because this reduces the likely-hood of mistaken identity.
   4. Affiliation: The affiliation identifies the organization which the author conducted the investigation and build the system for.
2. **Acknowledgement Page:** You may have an acknowledgement page to thank a family member or whoever you want.
3. Abstract: Repeat the abstract you used for your presentation.
4. Table of Contents: Look at the sample in Turabian manual for the format. Follow the same indentation.
   1. Template of Table of Contents:
      1. **Chapter I: Introduction** 
         1. ***Introduction***: A good introduction answers these questions in a paragraph or two, summarizes the relevant arguments and the data, gives the reader a firm sense of what was done and why. Before writing the introduction Consider asking yourself the following questions:
            1. What is the point in the study?
            2. How does the proposed design relate to the problem?
            3. What are the implications of the study, and how does the study relate to previous work in the area?
            4. What are current positions tested, and how were they derived?
         2. ***Problem statement:*** Describe the problem statement.
         3. ***Purpose statement and Rationale:*** Describe the purpose of the project. After you have introduced the problem and developed the background material, you are in a position to tell what you did.
         4. ***Method:*** Describe the method used to conduct the investigation. The Method section describes in detail how the project was conducted. Such a description enables the reader to evaluate the appropriateness of the methods and the validity and reliability of the project.
         5. ***Need of such project***: justify the need of such project.
         6. ***Contributions to body of knowledge*** or society
         7. ***Limitations*** of the Project
      2. **Chapter II: Literature Review**
         1. Organize your literature review in a logical flow.
         2. Assume that the reader has knowledge in the field for which you are writing and does not require a complete digest. A scholarly review of earlier work provides an appropriate history and recognizes the priority of the work of others. If you summarize earlier works, avoid nonessential details; instead, emphasize pertinent findings, relevant methodological issues, and major conclusion. Refer readers to general surveys or reviews of the topic if they are available. Demonstrate the logical continuity between previous and present work.
      3. **Chapter III: Analysis**
         1. ***Feasibility Study***
         2. Analysis of what you found out in the previous chapter
         3. Why did you choose the software language you have used?
      4. **Chapter IV: Design**
         1. Elaborate on how did you design your project.(The blue prints of your project)
            1. ***Hardware*** (elaborate on what hardware devises you used and why)

Any circuits

Any diagrams

* + - * 1. ***Software*** (elaborate on the logic how did you program)

What kind of algorithms did you use and why?

Explain your Flow charts

* + 1. **Chapter v: Implementation**
       1. ***Hardware*:** Elaborate on time, restrictions, difficulties you have experienced
       2. ***Software*:** Elaborate on learning the software, why it is so unique compared to other software languages you learned. How long did it take you to learn? What are the difficulties you have encountered?
    2. **Chapter VI: Conclusion**
       1. ***Summary*** and conclusion
       2. The Conclusion chapter summarizes the project. Report the data in sufficient detail to justify the conclusions.
       3. *Discussion*: You are free to examine, interpret, and qualify the results. Open the discussion with a clear statement of the support for your original idea. In general, be guided by the questions: what have I contributed here? How has my study helped to resolve the original problem? What conclusions and implications can I draw from my study? The responses to these questions are the core of your contribution, and readers have a right to clear, unambiguous, and direct answers.
       4. ***Implications*** of the results. After presenting the results, you are in a position to evaluate and interpret their implications, especially with respect to your original proposed ideas
       5. ***Personal reflection*** on lessons learned about the process
       6. What are the ***lessons learned*** about this project
       7. If you were to do it again, what would you have done different
       8. ***Future research and recommendations*** (if someone wants to take your project and carry on, what would you recommend that they do to finish the project.)
       9. What would you recommend someone to add to your project
    3. **References:**
       1. All citations in the report must appear in the references list, and all references must be cited in text. The reference list should be succinct, not exhaustive; simply provide sufficient references to support your research. Choose references judiciously and cite them accurately. Refer to our Library tutorials for samples of the format.
    4. **Appendices:**
       1. An appendix is helpful if the detailed description of certain material is distracting in or not appropriate to, the body of the report. In addition, make sure to include the following in your appendices.
       2. ***Appendix A: Proposal***
       3. ***Appendix B: Gantts Chart***
       4. ***Appendix C: Progress report 1***
       5. ***Appendix D: Progress report 2***
       6. ***Appendix E: Progress report 3***
       7. ***Appendix F: Source Code***
       8. ***Appendix G: Diagrams***
       9. ***Appendix H: PowerPoint***