

A term **project** shall be done in lieu of a final exam. The project you choose:

- must be of topical interest, and relate to course material of EE5200. 2 persons/team.
- must be new work (not copied from your previous courses or a past student's project).
- must demonstrate a graduate student level of mastery and **application** of the related concepts and theories. [Note: this is not simply a term paper, but a **project**.]
- is sufficiently researched, referenced, and documented, and also includes the in-depth analysis and evaluation of the concepts of the most key journal paper related to this work.
- length of body of report: approximately 10 pages of text (not including figures, tables, or equations). All writing is your own original writing. **No plagiarism. No self-plagiarism.**

Time line and required submissions are as follows, add'l deliverables contribute to the grade of your term project, i.e. ~15% of your course grade. Schedule is:

- Week 6: submit short e-mail with idea(s) requesting instructor feedback.
  - Week 7: submit formal outline of project and list of key references.
  - **Week 9: submit expanded outline of project and complete reference list - \***
  - Week 11: Submit draft of journal paper analysis (JPA)
  - **Week 12: Demo working base case model, submit rough draft of project report \***
  - **Week 13: Submit final JPA and .ppt presentation \***
  - **Week 14: Submit final report/deliverable \***
  - Finals week: be prepared to present/demonstrate project during final exam time-slot.
- \* **graded milestone**

#### Report Outline:

##### **Front Matter:**

- Title Page
- Executive Summary (not needed for initial draft)
- Table of Contents (use as "working outline")
- Statement of contributions by each team member, signed in agreement by all.

##### **Body of report (max 10 pages of text, plus figs):**

- Introduction (brief overview of project: problem area, motivation, overview of project)
- Background
  - literature search, most important references
  - Presentation of key concepts connected with project
  - Identification of existing voids or weaknesses, and resulting opportunity
- Proposed Approach
  - Overview of basic idea that you will develop and implement
  - Development of applied math details
- Implementation (may be only partially complete in draft versions)
- Results (Expected Results in draft versions)
- Conclusions: salient points, cause-and-effect relationships, sensitivities, etc.
- Recommendations for Continued Work

##### **Supplemental Information:**

- Reference List (IEEE format, numbered [1], [2], etc, in order of first author's last name)
- Appendices as required to document details

#### Required format and layout:

- Font: 11-pt CG Times w/1.25-1.5 line spacing; or 10-pt comic or ariel w/1.0-1.25 line space
- Page layout: 1" margins, include page numbering within margin area.
- Use equation editor, number equations, call out references by number [1].