

EECS 700: Computer Modeling, Simulation, and Visualization
Project: Modeling/Simulation/Visualization Project (of your choice)
Due: See below for due dates.

For this project, you will be completing a project involving computer modeling, simulation, and visualization as applied to a scientific problem; the topic of your project will be decided on by you and your teammates (subject to my approval). The goal of the project is for you to model, simulate, and visualize a scientific/engineering question of interest from an application and to learn something new.

Submission of Presentation, Project Report, and Project: Before your presentation, you should (1) e-mail a copy of a PPTX file of your talk to shontz@ku.edu and (2) bring your printed talk slides to class to hand-in. Submit a zip file of your code, input/output files, etc. (as relevant to the simulation and visualization aspects of your project), and your project report in PDF format to shontz@ku.edu. Each team should submit only one copy of the talk slides and report with all team members' names listed.

Timeline:

1. **Thursday, October 9:** Brief project proposal (approximately one page in length; one paragraph each on the application, modeling, simulation, and visualization aspects of the project); bring a hard copy of your proposal to class to turn-in.
2. **Thursday, October 23:** Revised project proposal (with additional details on the simulation aspect of the project); bring a hard copy of your proposal to class to turn-in.
3. **Tuesday, November 20:** Revised project proposal (with additional details on the visualization aspect of the project); bring a hard copy of your proposal to class to turn-in.
4. **Monday, December 15:** Presentations (10:30am).
5. **Monday, December 15:** Final Project/Presentation/Report Due (10:30am). See the above for submission instructions.

All deadlines are 11:00am on the due date unless otherwise stated.

Note: LATE SUBMISSIONS WILL NOT BE ACCEPTED, AS I MUST SUBMIT FINAL GRADES ON TIME.

Grading: This project is worth 25% of your final grade. In terms of the project, project material (such as code, modeling, analysis, or etc.) will count for 70% of the project grade, whereas the presentation and project report will each count for 15% of the project grade. Your project will be evaluated on formulation of an interesting question, research methodology, quality of models, numerical simulations, scientific visualizations, and results, and effort invested. Your presentation and report will be graded according to clarity, appropriate use of visual aids, quality of writing/presentation, and adherence to length/time requirements. **The presentation will be during the final exam time slot. There is no fixed page length requirement for your report; it should be of an appropriate length to cover your work on this topic.** The report should be written in full sentences using good English and should resemble a mini-conference/journal paper.