

## **ME345 – Modeling and Simulation**

### ***Engineering in practice: Student Presentations***

***Note: for due dates, refer to class schedule***

There are two options available for students to complete this assignment.

**OPTION 1.** Give a **5 minute** presentation describing an engineering project on which you have participated (preferably related in some way to CAD/CAM/CAE). Examples of suitable topics for discussion may include: engineering internships, co-ops, undergraduate research projects, independent research projects, etc. Class projects (Design Spine, Senior Design, etc) are generally not appropriate topics, as other students are likely already familiar with these projects.

Your presentation should be general enough to give the other students in the class an idea of what you (or the group that you worked with) did, why you were doing it, and how you/group went about accomplishing the task. **A focus on modeling and simulation, if applicable, would be appropriate.**

The presentations will be held during the class periods indicated above. This does not have to have the feel of a “professional” presentation, but your talk should be prepared, clear, concise, and rehearsed ahead of time. The projector will be available for use (pictures, PowerPoint slides, etc); you may also want to sketch or write on the whiteboard.

Do not reveal any confidential information (if applicable). Alternative ideas for topics, while encouraged, must be pre-accepted by the instructor.

**OPTION 2.** Write a short 2 page “research paper” on an engineering-related topic of interest. These topics DO NOT NEED to be pre-approved by me as long as they are can be related to an engineering-related topic. (If you are not sure, you can email me to verify that your topic is acceptable; although I have never denied a topic, I can imagine that it would be possible if a one tried hard enough to pick an inappropriate topic.)

These do not need to be formal reports, but must represent new and original work. (Submitting work already completed as part of another assignment is not acceptable.) Papers must be turned in at the beginning of class of the day of the oral presentations.

*I feel that it will be very interesting/informative/useful for you to see what sort of projects your classmates have been exposed to outside of the classroom. Be prepared that other faculty may be invited to attend these presentations.*

**Attendance at these classes is mandatory; only pre-excused absences will be acceptable.**