

ENTC463 Mechanical Design Applications II Spring 2008

Life Long Learning

Technical Report (10% of the final grade)

This will be a team effort. Each team consists of 2 to 3 students.

You will be learning a machine element or a mechanical system on your own. Generate a technical report after you complete your independent study. You can use the textbook as a reference. However, do not directly copy materials from the textbook or other sources.

Read the hand-out and get familiar with the format of the report. The report should cover (but not limited to) the followings:

- **Abstract**
- **Introduction** – describe the machine element/mechanical system (what are the applications)
- **Technical information** –functionalities, geometry, key design parameters, load analysis, stress analysis, materials etc.
- **Manufacturing processes** – how to make the machine element/system.
- **Commercial information** – manufacturers, where to buy and what is the cost
- **Conclusion**
- **References** – list all references at the end of the report, follow the format of the hand-out

Due dates:

Proposal – 1 page, 3/20/2008

Final report – 5/2/2008