**ME355 STIRLING ENGINE PROJECT**

**Project Planning**

Each student in the class has been assigned to a small team, and each team has been/will be assigned to manufacture individual parts that will ultimately be assembled by you to produce an engine powered by an engine based on the Stirling cycle.

**Deadlines for specific project milestones will be set in the lab lecture, and posted in the lab. Weekly typed progress reports will be due at the end of each lab class, turned into the Shop Office. Failure to meet the deadlines posted will result in a grade reduction.**

**Your team is required to complete all of your assigned parts by the end of week 8.**

**The fan must be completely assembled by the end of week 9.**

**To get full credit, all fans must be complete and running, powered by the flame of a single alcohol lamp, due on the final day of class.**

**As a general rule: Take the amount of time you think it will take to make a part, and multiply it by three. That will get you close to the actual time needed to complete each part.**

If necessary, these parts must be machined outside of regularly scheduled lab times, but it is highly recommended that you take advantage of your lab hours, as you have priority in the shop during this time. Refer posted lab hours for further information.

Your team must complete a working process plan for each component to be produced. Either Eamon McQuaide or another shop manager must approve and sign each working process plan before work may begin on any component.

In essence, the working process plan is simply step-by-step description of the manufacturing processes required to complete the part.

**A finalized version of each process plan is due the same day the completed engine project is due. This final version needs to be a typed step-by-step description of your specific machining process to make each part. Each description needs to be supplemented with drawings of each major step, preferably created in a CAD program.**

Do not lose your working process plans. Each finalized plan will be turned in with it’s corresponding working process plan that was signed by a shop manager at the start of your project. Example final process plan packets will be posted in the lab for reference to detail and content.