

**CE 3141 – Materials Testing Lab
Extra Credit – Concrete Frisbee**

This extra credit project is intended to be a fun way for you to demonstrate your knowledge regarding the fundamentals of concrete and concrete materials.

Preparation:

1. You must convey in writing, either by memo or e-mail, your intention to take part in this extra credit project.
2. Each student is limited to one official entry.

Procedure:

1. You are permitted to use, in any amount or combination, only those materials commonly found in reinforced concrete construction. This includes, but is not limited to, water, cement, coarse aggregate, fine aggregate, chemical and mineral admixtures, fibers, wire mesh or reinforcing bars, curing compounds, etc.
2. Each participant is responsible for obtaining materials and supplies that can not be found in TE 128. (I do have a small quantity of the glass micro-bubbles for your use. Depending on how many participate, I will determine how much micro-bubbles you may use.) (I will also try to bring some type of fibermesh or reinforcement)
3. The distance between extreme outside edges of a Frisbee must be at least **6 inches** but no more than **14 inches**.
4. The maximum height of a Frisbee can be no more than **0.75 inches**. This dimension will be determined by placing the Frisbee flat on a table and measuring the distance to the highest point on the Frisbee.
5. Frisbees will be judged for **originality in appearance, weight, and distance**.

Competition:

1. Each student will have to throw their own Frisbee.
2. Each Frisbee is to be thrown 3 times, assuming it remains intact.
3. Distance will be measured from the final resting place of the Frisbee.
4. Distance is the perpendicular measure from the throwing line, subtracting the off-line distance from the perpendicular distance.
5. Frisbees will be weighed before the competition.

Scoring

1. The winner of each of the three categories (Procedure #5) will receive 2% extra credit. 1.5% extra credit will be awarded to those in second place. All others will receive 1% extra credit.
2. **The maximum allowable extra credit for this project is 2%.**