

CHEG 4137 and 4139
Pre-laboratory Report Worksheet: Caffeine Extraction

Complete this sheet with your group prior to your prelab meeting and turn it in to the instructor or TA.

Group Members:

1) What are the major learning objectives of this experiment? (Hint: Gaining experience with large scale equipment is not a major learning objective)

2) What equations or other pieces of theory will be important during your analysis? With respect to equations, which variables will you calculate?

3) What variables will you change over the course of your experiments (i.e. mixing speed, temperature, etc.)? List specific numerical values you want to use.

4) What variables will you measure during the course of your experiment? Where/how are these values measured?

5) Aside from instrumentation, what materials can be reused (e.g. chemicals, cuvettes, gloves)?

6) Where should you dispose of the chemical waste from this experiment?

7) How would you expect your chosen variables to affect caffeine extraction?

If your group will submit a video for this experiment:

8) What steps of the experiment will you capture on video?

9) What are the safety hazards to be especially aware of when filming the experiment?

