## FLUIDS LABORATORY College of Engineering

## **Measurement of Density and Kinematic Viscosity**

## Purpose

To measure the kinematic viscosity and density of a fluid, the uncertainty of the measurements, to compare the measured kinematic viscosity and density to the manufacturer's values, and to demonstrate the effects of viscosity by comparison of the fall times for spheres of different densities.





Block diagram of density/viscosity experiment including: measurement systems, data reduction equations, and results



- Estimate uncertainties
- Compare the measured viscosity to manufacturer values

## Results



experimental results (99% aqueous glycerin solution)