MECH3315 - Fluid Mechanics

**MECH 3315** Fluid Mechanics (3 semester credit hours) Lecture course. Governing equations will be derived applying conservation of mass, momentum and energy to a control volume. The flow behavior will be studied using the integral form of the governing equations for mechanical engineering applications (turbines, pumps, moving bodies). Assuming inviscid and irrotational flow, potential theory, Bernouilli equation, and Stokes theorem on the circulation will be discussed. Analysis of engineering applications of incompressible pipe systems, external aerodynamics, and computer solutions will be examined. Prerequisites: MECH 2330 and ENGR 3300. Prerequisite or Corequisite: MECH 3310. (3-0) S (2016-02-05 23:38:33)