

1. **Course Number and Name:**
CE 2375 Introduction to Fluid Mechanics
2. **Credits and Contact hours**
3 credit hours; 3 lecture hours
3. **Instructor's course or coordinator's name**
 - a. Dr. L.G. Perez
4. **Textbook**
Engineering SWP University Texas El Paso W/Access; Authors: Li, Edition: N/A.
Publisher: Pearson Learning Solutions
5. **Specific Course information**
 - a. **Catalog Description:** Introduction to the basic concepts of fluid mechanics to include properties, property relationships, states, and fields. Fluid mechanics is the study of the behavior of fluids that are either at rest or in motion. Fluid mechanics is one of the primary engineering sciences that has important applications in many engineering disciplines.
Prerequisite: CE 2315 with grade of "C" or better; Co-requisite: None required.
6. **Specific goals of the course**
7. **Student Outcomes:** a, e, 3, 4.
8. **Topics Covered:**
 - a. Fundamental Concepts
 - b. Fluid Statics
 - c. Kinematics Of Fluid Motion
 - d. Conservation Mass
 - e. Work And Energy Of Moving Fluids
 - f. Fluid Momentum
 - g. Differential Fluid Flow
 - h. Dimensional Analysis And Similitude 8
 - i. Viscous Flow Within Enclosed Surfaces
 - j. Analysis And Design For Pipe Flow