

Introductory Fluid Mechanics

CENG 101A – FALL 2011

This course is intended as an introduction to fluid mechanics for chemical engineers and bioengineers. Course topics: hydrostatics; Bernoulli equations; macroscopic control volume momentum and energy equations; inviscid potential flow; Navier-Stokes equations for viscous flows; flow in pipes; external boundary layer flows and drag . The 5th edition Wiley text "A Brief Introduction to Fluid Mechanics" by Young, Munson, Okiishi, and Huebsch is required; we will cover selected topics from chapters 1-9. The required text is available in both bound and loose leaf editions in the book store, and either is acceptable. Lectures will be held on Tuesday and Thursday at 11-12:20 in 115 Center Hall AND on Friday at 10-10:50 in 106 PCYNH.

Course information, assignments, homework solutions, grades, etc, will be posted on Ted at <http://ted.ucsd.edu>, available to enrolled students , which uses your UCSD email user name and password. If you have problems contact Academic Computing and Media Services at acms-help@ucsd.edu or 858/534-2267.