

2011 Fall MAE 6010/PHYS 7601 Syllabus

Lecturer Prof. Jane Wang, 323 Thurston Hall, zw24@cornell.edu

Room/Times MW 1:25 - 2:40pm, UPS 211

Office Hour MW 3-4pm, TH 323

Texts (at least one) Acheson, Elementary Fluid Dynamics
Tritton, Physical Fluid Dynamics

Panton, Incompressible Flow
Kundu, Fluid Mechanics

Batchelor, Introduction to Fluid Dynamics
Landau and Lifshitz, Fluid Dynamics

Flow Visualization M. Van Dyke, An Album of Fluid Motion

Fluid Dynamics Videos:
National Committee for Fluid Mechanics for Films
<http://mit.edu/hml/ncfmf.html>

APS/DFD fluid dynamics videos:
<http://www.aps.org/units/dfd/videos/index.cfm>

Homeworks

There will be about 10 homework sets. Homeworks are to be turned in individually.

Grades

Homeworks,	30%
Midterm	30%
Final	40%