

2012 Fall MAE6010/PHYS7601 Syllabus

Lecturer Prof. Jane Wang, jane.wang@cornell.edu

Room/Times TR 2:55 - 4:10 pm, RCK103

Office Hour TR 4:30-5:30pm, Clark 517

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

Lectures in video
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, and they will be graded.

Grades

Homeworks,	30%
Midterm	30%
Final	40%

Course Website <http://dragonfly.tam.cornell.edu>