INSTRUCTOR: Dr. Thomas Cubaud  
Office Hours: Tuesday (2 – 4 PM), Friday (3 – 5 PM), Heavy Eng. Bldg., Room 218  
Phone: (631) 632-9431  
E-mail: thomas.cubaud@stonybrook.edu

TEACHING ASSISTANTS: Dhiraj Nandyala  
Office Hours: Tuesday (2 – 4 PM), Light Eng. Bldg., Room 136F  
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Zi-An Jia  
Office Hours: Tuesday (10 AM – 12 PM), Heavy Eng. Bldg., Room 135  
E-mail: zi-an.jia@stonybrook.edu

WEEKLY SCHEDULE: LECTURE – Monday, Friday (1:00 – 2:20 PM)  
Location: Javits Lecture Hall 110  
RECITATION – Wednesday (10:00 – 10:53 AM)  
Location: Javits Lecture Hall 102

TEXT: Title – Introduction to Fluid Mechanics, from 6th to 9th Edition  
Authors – Fox, McDonald and Pritchard  
Publisher – John Wiley & Sons, Inc., New York

CREDIT EARNED: 3 credits

GRADING: Your semester letter grade will be based upon your performance in the following categories:

Homework – 15%  
Exam I – 25%  
Exam II – 25%  
Final Exam – 35%

There will be no make-up exams unless arranged prior to the exam.  
Each of the exams will be cumulative.

HOMEWORK: Homework problems will be available on Blackboard before the Wednesday recitation and will be due the following Wednesday at the end of the recitation unless otherwise directed. Late homework will not be accepted.

COURSE LEARNING OBJECTIVES:
1. Quantitative representation of fluid flow variables using dimensions and units  
2. Understanding the concept of viscous flow  
3. Understanding the principle of manometer as a measuring instrument  
4. Determining the hydrostatic force on submerged plane surfaces  
5. Applying integral method to determine the force between fluid flow and solid surfaces  
6. Velocity field representation to determine the incompressibility, irrotationality, and acceleration  
7. Applying Bernoulli Theorem
STONY BROOK UNIVERSITY SYLLABUS STATEMENT:
If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services at (631) 632-6748 or http://studentaffairs.stonybrook.edu/dss/. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following web-site: http://www.sunysb.edu/ehs/fire/disabilities.shtml

STUDENT CONDUCT:
Stony Brook University expects students to maintain standards of personal integrity that are in harmony with the educational goals of the institution; to observe national, state, and local laws and University regulations; and to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students’ ability to learn.

STATEMENT ON ACADEMIC DISHONESTY
Academic dishonesty is an extremely serious offense and will not be tolerated in any form. Academic dishonesty in general is the presentation of intellectual work that is not originally yours. Examples include, but are not limited to, copying or plagiarizing class assignments including homework, reports, designs, computer programs, and other submitted materials; copying or otherwise communicating answers on exams with other students; bringing unapproved aids, either in physical (written) or electronic form to an exam; obtaining copies of an exam prior to its administration, etc. Academic dishonesty violates both the ethical and moral standards of the Engineering profession and all infractions related to academic dishonesty will be prosecuted to the fullest via the CEAS CASA committee. For you, the honest student, academic dishonesty results in lower class curves, hence a depression in your GPA and class standing, while cheapening the degree you earn.

CALCULATOR POLICY
Effective Fall 2008 only the following calculators will be permitted on all midterm and final exams in the Department of Mechanical Engineering. There will be no exceptions! This list of calculators is identical to that allowed for the National Council for Examiners for Engineering and Surveying (NCEES) Fundamentals of Engineering (FE) exam that many of you will take in your senior year, as well as the Professional Engineering (PE) exam that you may take several years from now. The sooner you become comfortable on one of these calculators, the better.

NCEES Allowed calculators as of Fall 2009:

- **Casio:** All fx-115 models. Any Casio calculator must contain **fx-115** in its model name.
- **Hewlett Packard:** The HP 33s and HP 35s models, but no others.
- **Texas Instruments:** All TI-30X and TI-36X models. Any Texas Instruments calculator must contain either **TI-30X** or **TI-36X** in its model name.

The NCEES policy on calculator can be found here:
http://www.ncees.org/exams/calculators/