

**ME152A: Fluid Mechanics**  
Fall 2009

**Instructor:** Dr. Rouslan Krechetnikov

**Contact:**

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**Office hours:** TUE/THU 11:00-12:30 am

**Website:** <http://www.engineering.ucsb.edu/~rkrechet/courses.html>

**Prerequisite:** Mathematics 5C, ME16, and ME 151A (may be taken concurrently); open to ME majors only

**Format:**

Lectures: TUE/THU 9:30-10:45 am in Buch 1930, beginning on September 24.

**Textbook (required):** "Introduction to Fluid Mechanics" by R.W. Fox, P.J. Pritchard, and A.T. McDonald, 7th edition, Wiley (available at the bookstore).

**Topics:**

Introduction to

- the fundamental concepts in fluid mechanics
- basic fluid properties

Basic equations of fluid flow  
Dimensional analysis and similitude  
Hydrodynamics

**Homeworks:** there will be six homework sets, each due at 11:59 pm on Thursday (the assignment box is located to the left of the entrance to the CAD lab, 2243 Engineering II).

**Midterm tests:** there will be two tests, held during the class

Test 1: Thursday, October 22  
Test 2: Thursday, November 19

Policy: closed-book, no collaboration is allowed. There will be no make-up tests. In case when a student misses a test due to a substantiated reason, the term mark may be pro-rated.

**Final examination:**

Date and time: December 9, 8:00-11:00 am  
Policy: closed-book, no collaboration is allowed.

**Grading policy:**

Homeworks: 20%  
Tests: 30%  
Final exam: 50%