Teaching team: Evan "Dr.V." Variano, Madeline Foster-Martinez, and Olivia Hoang

Course website: Bcourses will be used to post all relevant course information. This includes assignments and an updated listing of office hours (office hours may change over time).

Discussions: GSIs will present solved problems and answer your questions for one hour on Mondays and Wednesdays in 212 O'Brien. These discussion sessions are called "lab" in the official course listing, but lab is actually done on your own. All discussion sessions in a given week are the same, so you can attend any session you want. You have seating priority during the class time that you officially registered for.

Homework: Assignments are posted on Bcourses and are **due in before 10:10 am.**
There are two ways to hand in assignments: (1) in class before 10:10 am; (2) under the door of Dr.V's office (648 Sutardja Dai Hall) before 9:30 am. Method (2) is good for planned absences. ***No credit is given for late assignments. No excuses!!*** Here are some excuses that do not work: "I missed the bus" "I was taking care of my sick friend" "I really need a higher grade because of my GPA/fellowship/family"

Lowest grade dropped: Because we all have to balance many different responsibilities, your lowest homework grade will be dropped, so that you can let other priorities overshadow your fluids work sometimes without being penalized. If you need further "relief" from class obligations, the proper recourse may be to drop the class and take it in a future semester when you can give it the attention it deserves. If an ongoing health or family concern is going to interfere with your assignments, email Dr.V. to set up a private meeting.

Lab experiments: Lab experiments can be done in 110 O'Brien Hall at any time. The building is unlocked Monday-Friday 8am-6pm. The door code to room 110 is 233100. Please do not share it with anyone outside CE100. Each experiment will be set up and available for approximately 2 weeks; doing them as early as possible will help you learn. You will work on experiments with a 3-person experiment team. Your team will submit a single laboratory report, and every member of the team will receive the same grade. Laboratory reports must be handed in according to the same rules as homework assignments.

Exams: There will be 3 exams. They are long exams, to reduce the emphasis on time. Material in the exams will be drawn from lectures, reading, labs, discussion, and homework.
All exams are cumulative, i.e. you are responsible for all the material covered before the exam.

For exam 1, you can bring 1 piece of paper (letter or A4 size) handwritten on both sides with notes. For exam 2, you can bring 1 piece of paper (letter or A4 size) handwritten on both sides with notes. For exam 3, you can bring 2 pieces of paper (letter or A4 size) handwritten on both sides with notes.

On all exams, necessary data tables will be given, including values such as the density of water, the moments of geometric objects, drag tables, the Moody diagram, or obscure unit conversions.

You can bring snacks and headphones with music, as long as neither is distracting to your neighbors. You can take bathroom breaks without permission. You do not have to stay for the full time, but noone is allowed to leave in the last 15 minutes of the exam.

You will need a calculator. You will use it to do basic operations like addition and multiplication. Graphing calculators are not needed, but you can use them if you want. Their extra capabilities will not help you. Your calculator should not be able to store notes, display PDF files, or connect to the internet.

Grading: Assignments/exams will be weighted as follows:

Homework		15%		Lab Reports	25%	
Exam 1	20%	Exam 2	20%	Exam 3 (Final Exam)		20%

Everyone can get an A. Thus you are not in competition with your classmates.
An A signifies complete understanding of the material, and the ability to apply it to problems beyond those that are simple variations of those worked in class.

Some questions will not be graded. When a question is graded, we will use this 4-point scale:

Score	Grade guide	Meaning
4.0	A	Perfect solution
3.0	B	Missing one idea, otherwise correct
2.0	C	Missing multiple ideas or missing the central idea of the question
1.0	D	Has some correct content
0.0	F	No correct content, Omitted, Lacking justification, or too hard to read

For simple questions, the set of possible grades is {4,2,0}.

The grade guide will be adjusted for fairness at the end of the class in two ways: (1) Students with very similar performance should receive the same grade (2) Grades should reflect overall mastery of the material, not the details of an assignment. Thus, in a very challenging assignment, a grade of 3.0 might correspond to an A-.

Regrade policy: Grades are not "up for negotiation." This policy is to maintain fairness. Without this policy, the best negotiator would get the best grade! To correct a clear error (e.g. improperly added points) attach a cover sheet to the front of the assignment and write a clear note on the cover sheet explaining the error. Give this to the professor when the next week's homework assignment is due. Keep a copy from which to study while we regrade your work.

Communication: Email is for dealing with private personal matters. Questions about class should be asked during office hours or in the forums on Bcourses.

Accommodations: If there are any personal matters requiring special accommodations, including those from the disabled students program, please inform Dr.V. within the first two Weeks of class. You can do so by email or by setting up an appointment.

Collaboration: Learn from each other! The most valuable part of your education may be the network of people you meet. Find a study group, and if things get tense, try not to blame each other – learning is tough.

Prepare your own written work: Even if you sat and talked with a friend to understand how to do a problem, and worked it together on a chalkboard, your homework should not look identical to theirs. To show your personal understanding, use your own words to describe each step, and make your own choices about what steps to show and what steps to skip.

Zero credit for plagiarism: If your work is not your own, your entire assignment will be given zero credit. If two or more students submit written work that is identical, the entire assignment will be given zero credit for all students involved. The same policy applies to exams. Copying on an assignment or an exam may also result in referral to Student Judicial Affairs.

Academic Integrity: We will adhere to the policies described in the Report of the Academic Dishonesty and Plagiarism Subcommittee, June 18, 2004
http://teaching.berkeley.edu/academic-dishonesty-and-plagiarism-subcommittee-report

Textbook: *Fundamentals of Fluid Mechanics*, 7th edition, by Young, Munson, Okiishi, and Huebsch. Published by John Wiley & Sons. On reserve at the Engineering Library.

You can use any edition of this text. The content, section numbering, and homework numbers may be slightly different in different editions. If you use a different edition than the US 7th edition, then it is your responsibility to make up for these differences.

Reading: Most people learn best when they see material presented several times, in different ways. Because of this, lectures and textbook reading will be overlapping views of the same material. Read the textbook sections that correspond to each lecture to ensure success – experiment with reading before and after lecture to see which works best for you. Additional notes by Dr.V. will be distributed, but these should not replace lecture, textbook, or discussion.

Computing: Homework and labs may require Matlab, which is available on the computers in Davis Hall 345, 118 McLaughlin Hall, and B4 Evans Hall (for access, see http://www.ce.berkeley.edu/resources/computing/account). A good way to refresh your Matlab skills is by working through the tutorials, or working with a friend who knows it well.

Rights: You, your fellow students, and the instructors have the right to be treated fairly and with respect at all times.

The most important thing on this syllabus: Learning is a difficult experience, and the stress we feel when we don't understand something can lead us to criticize others (like our study groups) too harshly. Similarly, people often criticize themselves too harshly. As your professor, my opinion is that you will have a great life regardless of whether you understand fluids. Understanding fluids can help you be a better engineer, but it is not worth beating yourself up over. If you are beating yourself up over fluids, or anything else, I encourage you to call 510-642-9494 to speak with the people at counseling & psychological services. They will provide some personalized and expertly-informed help (at first over the phone, and then in person) to get you back to feeling great, and the service is free to all students, regardless of your health care plan. If you or someone you know is in a total emergency, call the Alameda County Crisis hotline: 800-309-2131.