ME 106 Fact sheet

Instructor: Prof. Philip Marcus

email: pmarcus@me.berkeley.edu (always put ME106 somewhere in the subject heading)

Office hours: M 9 am to 10 am, W 3 pm to 4 pm

in 6121 Etcheverry (if door is closed, then across Hall in 6116 Etch)

Graduate Student Instructor (GSI): Aidi Zhang

email: aidi_zhang@berkeley.edu

Office hours: W 5 pm to 6:30 pm, Th 9:30 am to 11 am

in GSI room in Hesse

Grader: Daniel Raebel

email: daniel_raebel@berkeley.edu

Course Material:

lecture notes, homeworks, exams, solutions to homeworks and exams are posted on bCourses

Fundamentals of Fluid Mechanics by Munson et.al. (8^{th} edition)

Course webpage:

bCourses: https://bcourses.berkeley.edu/courses/1484168

All course and discussion notes, homework sets and solutions will be uploaded here. Homework assignments will be collected here too.

Piazza: https://piazza.com/class/k05iasv2yw1jv

We use Piazza to manage students' questions and answers. Asking questions through Piazza is preferred because it encourages you to discuss course materials with your classmates. Please don't post any homework solutions here.

Grading: Homework: 15%. (All assignments count equally, but we drop your two lowest homework grades.)

Midterm 1: 25%

Midterm 2: 25%

Final Exam: 35%

Your overall grade will be normalized (i.e., graded on a curve) following Mechanical Engineering Department's mandate that Required Upper Division courses (such as ME 106) have a mean grade of 2.9/4.3 (i.e., a C+). (Complain to the Department, not the GSI or Professor!)

Important dates:

Midterm 1: Oct. 4th, in class

Midterm 2: Nov. 15th, in class

Final Exam: Dec 19th, 3 to 6 pm, location tbd

Homework:

Homework dues every next Monday at 11:59pm. The homework set is posted on bCourses. You should have at least a week to finish it.

We collect homework through bCourses.

If you upload homework as photos or scans, please make sure that all figures are clear enough for the grader to understand your work.

Make sure that the dimensions are correct before you hand homework in. There is **no** partial credit for homework or exam work if the dimensions are incorrect.

If your homework will be turned in late, please email Prof. Marcus before it is due. Otherwise, late homework will be graded on a case by case basis after a discussion with Prof. Marcus.

The homework problems are of two types: taken from the textbook and original to this class. You will note that there is a qualitative difference in the difficulty of the two types of problems. The exam questions are similar to the original problems, rather than the textbook problems. *You are strongly encouraged to collaborate with each other in solving the homework problems.*

Discussion Section:

Discussions will be held on Tuesday 4 pm to 5 pm/Thursday 1 pm to 2 pm. You only need to attend one of the Discussion Sections. Discussion notes will be uploaded after on bCourses in a labelled folder at the end of the week.

Our discussions will be used to review course material from the previous week (~15min) and discuss your questions and related problems (~40min). The first discussion is for math and physics review. The discussion before the midterms/final will be a review section.

Midterms and Final Exam:

We will be generous with partial credit, but ruthless when your answers do not have the correct dimensions. Check your dimensions as you go along and in your final answers. No memorization is required. Open books, downloads, notes, cheat sheets etc is allowed. NO electronic devices should be brought to the midterms or final. If you must bring a phone, it must be off at all times. The questions asked in the midterms and final will be similar to the homework problems that you are assigned that are NOT in the textbook.

Honor code: The class is run and graded in accord with the Berkeley honor code, which can be found at: https://teaching.berkeley.edu/berkeley-honor-code