

INSTRUCTOR: Thorsten Stoesser, 229 Mason, 404-894-4432 email: thorsten@ce.gatech.edu

Office Hours: MWF 11-12

PREREQUISITE: CEE2040 Dynamics (or CEE 2020, Statics & Dynamics)

TEXT: Munson, Young, and Okiishi, *Fundamentals of Fluid Mechanics*, 5th Edition, John Wiley and Sons (2006). On reserve at the library.

HOMEWORK: Homework problems will be assigned and collected in class a week later. Maximum homework score requires appropriate presentation quality and readability. Team work in groups is encouraged, but independent homework solutions must be turned in.

EXAMS: There will be three mid-semester exams (Friday, September 21; Wednesday October 31; Friday, November 30; in class) and a final (Monday December 10, 8:00-10:30). All exams are closed book, however one page (8-1/2 by 11, single side) of equations is allowed.

GRADES: Your final grade will be based on graded homework problems (10%), three mid-semester exams (20% each), and final exam (30%).

HONOR CODE:

- Plagiarizing is defined by Webster's Dictionary as "to steal and pass off (the ideas or words of another) as one's own: use (another's production) without crediting the source." If caught plagiarizing, you will be dealt with according to the GT Academic Honor Code.
- When working on homework, you may work with other students in the class. However; you must turn in separate versions of the homework with the following written on it: your name and the names of everyone you collaborated with.
- Cheating off of another person's test or quiz is unethical and unacceptable. Cheating off of anyone else's work is a direct violation of the GT Academic Honor Code, and will be dealt with accordingly.
- Unauthorized use of any previous semester course materials, such as tests, quizzes, homework, projects, and any other coursework, other than that provided by the instructor, is prohibited in this course. Using these materials will be considered a direct violation of academic policy and will be dealt with according to the GT Academic Honor Code.
- For any questions involving these or any other Academic Honor Code issues, please consult the instructor or www.honor.gatech.edu.

COURSE TOPICS:

Chapter 1	Introduction
Chapter 2	Fluid Statics
Chapter 4	Kinematics
Chapter 5.1	Conservation of Mass
Chapter 3	Bernoulli Equation
Chapter 5.2	Conservation of Momentum
Chapter 5.3	Conservation of Energy
Chapter 7	Dimensional Analysis and Similitude
Chapter 9.1-2	Boundary Layers
Chapter 6	Differential Analysis