Week (Monday)	Topics	Reading (Munson 8th edition) Munson, Young & Okiishi Fundamentals of Fluid Mechanics
01/18/21	Properties of Fluids & Flows, Dimensions, Units, Ideal Gases Pressure, Hydrostatic equilibrium Class starts Wed; Discussions on 1/25; OH on 2/1	Chapter 1 skim it; Chapter 2 to section 2.6 Lectures 1 and 2 Statics
01/25/21	Hydrostatic equilibrium Multi-density fluids	Chapter 2 to section 2.7 - 2.8 Lectures 3 - 5 Statics
02/01/21	Thermodynamics, Pressure in Ideal Gases Isentropic Flows, Barometers	Chapter 2 section 29 - 2.11 Lectures 6 - 8 Statics
02/08/21	Forces & Torques on Submerged Plates Buoyancy, Archimedes, Gauss	Chapter 2 sections 2.12 - end Lectures 9 - 11 Statics
02/15/21	Suction Cups, Atlantis, Archimedes and Forces on Plates Conservation Laws and Euler's Equation NO CLASS MONDAY - PRESIDENTS DAY	Lectures 12 -13 Statics, Euler, Vorticity
02/22/21	Mid-Term 1 on Friday Streamlines, streaklines, particle paths	Chapter 3 Lectures 14 - 15 Streamlines
03/01/21	Bernoulli Equation, Wings, Stagnation Points Applications of Bernoulli	Chapter 4 section 4.1 Lectures 16 - 18 Bernouii, C. V.
03/08/21	Bernoulli applied to Potential Flow, Barotropic Flow, Rotating Flow Control Volumes	Chapter 4 section 4.2 - end Lectures 19 - 21 C. V.
03/15/21	Control Volumes moving frames	Lectures 22 - 24 C. V.
03/22/21	SPRING BREAK!!!	
03/29/21	Control Volumes rockets, wind turbines Sources/sinks, irreversibility, Navier-Stokes equation, laminar vs turbulent	Chapter 5 Lectures 25 - 27 pt sources/sinks, viscosity
04/05/21	Dimensional analysis boundary layers	Chapter 6 Lectures 28 - 30 Dimensional Analysis
04/12/21	Mid-term 2 on Friday Navier-Stokes Equation's exact solutions	Chapter 8 Lectures 31 - 32 Exact Solutions
04/19/21	Pipe, channel, and Couette flows, Laval Nozzle, pt vortices	Chapter 7 Lectures 33 - 35 Solutions, Compressible
04/26/21	Last Class Friday turbulence theory and practice	Chapter 11 sections 11.1 - 11.7 Lectures 36 - 38 Turbulence - Special Topics
05/03/21	DEAD WEEK Voluntary Review	
05/10/21	FINAL EXAM WEEK Final on 5/11/21 Tuesday 3~6PM	