

Course Outline: (subject to change; see website for up-to-date information)

WEEK	MTG	DATE	TOPIC	READING	HOMEWORK
1	1	28-Aug	Introduction, Dimensions, Units, Ideal Gas Law	1.1 - 1.5	
	2	30-Aug	Viscosity, Compressibility, Surface Tension	1.6 - 1.9	
2	3	4-Sep	Fluid Statics	2.1 - 2.4	
	4	6-Sep	Gages, Manometers	2.5 - 2.7	HW 1
3	5	11-Sep	Force on Plane Surface	2.8 - 2.9	
	6	13-Sep	Force on Curve Surfaces	2.10 - 2.11	HW 2
4	7	18-Sep	Bernoulli Equation	3.1 - 3.2	
	8	20-Sep	Pressure Variation Normal to Streamline	3.3 - 3.4	HW 3
5	9	25-Sep	Stagnation and Dynamic Pressure, Examples	3.5 - 3.6	
	10	27-Sep	Energy Line, Hydraulic Grade Line, Restrictions	3.7 - 3.8	HW 4
6	11	2-Oct	Fluid Kinematics	4.1 - 4.2	
	12	4-Oct	Control Volumes and Reynolds Transport Equation	4.3 - 4.4	HW 5
7	13	9-Oct	Examination I		
	14	11-Oct	Conservation of Mass	5.1	HW 6
8	15	16-Oct	Principles of Linear Momentum	5.2	
	16	18-Oct	Examples	5.2	HW 7
9	17	23-Oct	Energy Equation	5.3	
	18	25-Oct	Examples	5.3	HW 8
10	19	30-Oct	Dimensional Analysis	7.1 - 7.4	
	20	1-Nov	Similitude, Modeling	7.5 - 7.8	HW 9
11	21	6-Nov	Practical Model Studies	7.9	
	22	8-Nov	Pipe Flow Characteristics, Laminar Pipe Flow	8.1 - 8.2	HW 10
12	23	13-Nov	Examination II		
	24	15-Nov	Turbulent Pipe Flow, Friction Factor	8.3	HW 11
13	25	20-Nov	Moody Diagram, Minor Losses	8.4 - 8.5	
		22-Nov	No Class		
14	26	27-Nov	External Flow, Lift and Drag	9.1	
	27	29-Nov	Boundary Layer	9.2	HW 12
15	28	4-Dec	Friction and Pressure Drag, Drag Coefficients	9.3	HW 13
16	29	12-Dec	Final Examination (Wed. 8:00 am - 10:00 am)		