

## ME 304 – Fluid Mechanics

**Text:** Munson, Young and Okiishi, *Fundamentals of Fluid Mechanics*, 5<sup>th</sup> edition, John Wiley  
**Grading:** Assignments: 20%, Quizzes: 50%, Final: 30%

WEEK	TOPIC	READING	ASSIGNMENT
1	Introduction	1.1 - 1.10	1.33, 1.53, 1.57, 1.59, 1.61
2	Fluid Statics	2.1-2.11.1, 2.12	2.41, 2.43, 2.57, 2.63, 2.70, 2.94
3	Bernoulli's Equation	3.1-3.8	3.14, 3.40, 3.45, 3.47, 3.51
QUIZ 1			
4	Fluid Kinematics	4.1-4.4	4.3, 4.5, 4.21, 4.35, 4.56
5 -6	Control Volume Analysis	5.1-5.2.2	5.9, 5.13, 5.19, 5.20, 5.31, 5.34, 5.38, 5.47, 5.65
7	Control Volume Continued – Energy	5.3	5.85, 5.91, 5.93, 5.94
QUIZ 2			
8	Differential Analysis	6.1, 6.2, 6.3, 6.8, 6.9	6.4, 6.6, 6.10, 6.80, 6.93
9	Dimensional Analysis	7.1-7.9	7.9, 7.14, 7.18, 7.33, 7.46
10-11	Pipe Flows	8.1-8.5.1	8.15, 8.17, 8.36, 8.45, 8.47, 8.56, 8.72, 8.75
QUIZ 3			
12-13	External Flows	9.1-9.2	9.10, 9.16, 9.22, 9.28
14	Drag	9.3	9.42, 9.48, 9.55
15	<b>COMPREHENSIVE EXAM</b>		

**The NJIT Honor Code and Professional Conduct will be strictly enforced.**