

Fall 2019

ME 304-101: Fluid Mechanics

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ME 304 – Fluid Mechanics – Syllabus

Text: Munson, Young and Okiishi, *Fundamentals of Fluid Mechanics*, 7th edition, John Wiley

Prerequisites: Mech 236 – Dynamics; ME 311 – Thermodynamics I

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WEEK	CHAPTER	TOPIC	READING
1	1	Introduction	1.1 - 1.10
2	2	Fluid Statics	2.1-2.11.1, 2.12
3	3	Bernoulli's Equation	3.1-3.8
4	4	Fluid Kinematics	4.1-4.4
5	5	Control Volume, Mass	5.1
Test 1			
6	5	Control Volume Analysis, Momentum	5.2.1, 5.2.2
7	5	Control Volume Continued – Energy	5.3
9	7	Dimensional Analysis	7.1-7.9
8	6	Differential Analysis	6.1, 6.2, 6.3, 6.8, 6.9
Test 2			
10-11	8	Pipe Flows	8.1-8.5.1
12-13	9	External Flows	9.1-9.2
14	9	Drag	9.3
15		COMPREHENSIVE EXAM	

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