

Department of Mechanical Engineering

Phone: +1.903.566.7003 Fax: +1.903.566.7148 Uttyler.edu/engineering

MENG 3310 – Fluid Mechanics Course Syllabus

Semester / Year	Spring 2025			
Catalog	Basic concepts of a fluid, and the fundamentals and applications of ideal and real			
Description	fluid flow. Topics include fluid statics, conservation principles, the Bernoulli			
	equation, fluid flow in pipes, open channel flow, and fluid flow measurement			
	devices. Three hours of lecture per week.			
Prerequisites	C or better grade in ENGR 2302 and MATH 3305, and MATH 2415 as a co-			
	requisite.			
Section Number	MENG 3310.052 and MENG 3310.053			
Instructor Name	Dr. Nelson Fumo			
Contact	Office, DDN 2000, Email, aforms Quitty log adv. Dhones (002) 565 5500			
Information	Office: RBN 3009, Email: nfumo@uttyler.edu, Phone: (903) 565-5588			
Class Type /	Tyler: Lecture/Face-to-Face/RBN 3038			
Instruction Mode	HEC: Hybrid – Zoom Lectures and In-Classroom-Exams/HEC A216.			
/ Location	Zoom ID: 936-9422-4961 Passcode: HEC			
Class Time	We and Fr 12:20 PM to 1:40 PM			
Office Hours	Tu/Tr/Fr 2:00 PM to 3:00 PM and by appointment			
No. of Credits	3			
Required	Munson, Young and Okiishi's Fundamentals of Fluid Mechanics, 8th Edition,			
Textbook	Wiley, 2016. Binder Ready Version (looseleaf); ISBN: 9781119080701.			
	Other presentation: Munson, Young and Okiishi's Fundamentals of Fluid			
	Mechanics, 8e Binder Ready Version with WileyPLUS Card Set; ISBN:			
	9781119231714.			
Optional	Schaum's Outline of Fluid Mechanics, M. Potter and Wiggert, McGraw-Hill, 2008.			
References	Student Solutions Manual and Study Guide, Fundamentals of Fluid Mechanics, 7th,			
	Munson et al, Wiley, 2013.			
Additional Rules	Access to lectures:			
and Requirements	1. Students must log in from their own computers to attend Zoom lectures.			
_	Computers MUST have a working camera.			
	2. Attendance will be taken at the end of each lecture by capturing a screenshot of			
	the Zoom session attendees.			
	Exams:			
	1. All exams will be conducted online during scheduled lecture times.			
	2. Students MUST keep their cameras on and ensure they are visible to the			
	instructor for proctoring throughout the exam.			
	3. Students MUST remain in the exam session, with their cameras on and			
	showing themselves, until the exam is officially closed on CANVAS.			
	4. The instructor is not responsible for connection or computer issues. Students			
	MUST take the necessary precautions to ensure they can complete the exam			
	without interruptions.			
	Artificial Intelligence:			
	AI tools are allowed to support students' learning and productivity, provided that			
	their use aligns with academic integrity standards. When required, students must			
	disclose their use of AI.			

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Evaluation	Exam 1 20%			
Method	Exam 2 20%			
Method	Exam 3 20%			
	Exam 4 20%			
	Final exam 20%			
Creding Policy /				
Grading Policy / Scale	Letter grades, scale:			
	A: 90 – 100; B: 80 – 89; C: 70 – 79; D: 60 – 69; F: < 60			
Important Events	Census date: January 27			
/ Dates	First drop for non-payment: January 21 Last date to withdraw from one or more 15-week courses: March 31			
Attendance /	Exam date: Refer to the last page for the exams dates.			
	1. Attendance : Attendance is not mandatory but is strongly recommended.			
Makeup policy /	Questions about missed classes will not be answered.			
other rules	2. Makeup exam : An opportunity to make up a missed exam may be available to			
	students with an excused absence. Excused absences include absences for			
	university-sponsored events and for religious observances (University policies).			
	Other makeups are granted only in extreme cases and at the discretion of the			
	instructor. Excused absence due to illness will require evidence of treatment by			
	medical personnel at a medical facility. Makeup exams may be scheduled for			
	the end of the semester.			
	3. Grade Appeal : Grades can be appealed by meeting the instructor during office			
	hours, but no later than a week after the grade has been given.			
	4. Questions : Questions will only be addressed if the student can demonstrate that			
	they have made a genuine effort to find the solution or answer independently.			
	5. Syllabus Changes : The instructor reserves the right to make changes to the			
	syllabus. Any changes will take effect one week after they are announced.			
C I .	6. Class Schedule: Refer to the next page for the class schedule.			
Course Learning	By the end of this course, students will be able to:			
Objectives /	1. Apply concepts of fluid statics.			
ABET & PEOs	2. Apply principles of conservation of mass, momentum, and energy in			
Relation	engineering problems. 2. Use Demonstrian for the colonlation of flow representations.			
	3. Use Bernoulli's Equation for the calculation of flow parameters.			
	4. Calculate and use minor and major head losses in pipe flows.			
Tontotive Tonics /	5. Apply basic boundary layer theory to external flows.			
Tentative Topics /	Pressure and manometry,			
Course Plans	Forces on Surfaces and buoyancy,			
	Bernoulli Equation,			
	Conservation on mass,			
	• Linear momentum,			
	Energy equation,			
	Losses in pipes,			
	Drag force.			
University Policies	https://www.uttyler.edu/offices/academic-affairs/files/syllabus-information.pdf			
J : :				



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MENG 3310 Fluid Mechanics Class Schedule

Lec Day Date Topic Reading 1 We 15-Jan Introduction 1.1 - 1.9 2 Fr 17-Jan Pressure and Manometry 2.1 - 2.7 3 We 22-Jan Work on related problems 2.8 - 2.10 5 We 29-Jan Buoyancy, Flotation, Stability 2.11 6 Fr 31-Jan Work on related problems 3.1 - 3.5 7 We 5-Feb Exam 1 - Chapter 1 and 2 3.1 - 3.5 8 Fr 7-Feb Elementary Fluid Dynamics - Bernoulli Equation 3.1 - 3.5 9 We 12-Feb Elementary Fluid Dynamics - Bernoulli Equation 3.6 - 3.7 10 Fr 14-Feb Velocity/Acceleration Fields & Reynolds Transport Theorem 4.1 - 4.4 11 We 19-Feb Conservation of mass (Int) 5.1 12 Fr 21-Feb Work on related problems 14 Fr 28-Feb Exam 2 - Chapter 3 and 4 and Section 5.1 14 Fr 28-Feb			1	MENG 5510 Fluid Mechanics Class Schedule	
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4 Fr 24-Jan Forces on Surfaces 2.8 - 2.10 5 We 29-Jan Buoyancy, Flotation, Stability 2.11 6 Fr 31-Jan Work on related problems 7 We 5-Feb Exam 1 - Chapter 1 and 2 8 Fr 7-Feb Elementary Fluid Dynamics - Bernoulli Equation 3.1 - 3.5 9 We 12-Feb Velocity/Acceleration Fields & Reynolds Transport Theorem 4.1 - 4.4 10 Fr 14-Feb Velocity/Acceleration Fields & Reynolds Transport Theorem 4.1 - 4.4 11 We 19-Feb Conservation of mass (Int) 5.1 12 Fr 21-Feb Work on related problems 13 We 26-Feb Exam 2 - Chapter 3 and 4 and Section 5.1 14 Fr 28-Feb Linear Momentum (Int) 5.2.1 - 5.2.2 15 We 5-Mar The Energy Equation 5.3.1 - 5.34 16 Fr 7-Mar Viscous Flow 6.8 - 6.9 17 We 12-Mar Spring Break - No	2	Fr	17-Jan	Pressure and Manometry	2.1 - 2.7
5 We 29-Jan Buoyancy, Flotation, Stability 2.11 6 Fr 31-Jan Work on related problems 7 We 5-Feb Exam 1 - Chapter 1 and 2 8 Fr 7-Feb Blementary Fluid Dynamics - Bernoulli Equation 3.1 - 3.5 9 We 12-Feb Velocity/Acceleration Fields & Reynolds Transport Theorem 4.1 - 4.4 11 We 19-Feb Conservation of mass (Int) 5.1 12 Fr 21-Feb Work on related problems 13 We 26-Feb Exam 2 - Chapter 3 and 4 and Section 5.1 14 Fr 28-Feb Linear Momentum (Int) 5.2.1 - 5.2.2 15 We 5-Mar The Energy Equation 5.3.1 - 5.3.4 16 Fr 7-Mar Viscous Flow 6.8 - 6.9 17 We 12-Mar Work on related problems 18 Fr 14-Mar Exam 3 - Chapter 5 and 6 19 We 26-Mar Dimensional analysis, similitude, and modeling 7.1 - 7.3	3	We	22-Jan	Work on related problems	
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	27	We	23-Apr		9.2 - 9.3
University Calendar Final Exam - Comprehensive	28	Fr	25-Apr	Work on related problems	
	Univ	ersity	Calendar	Final Exam - Comprehensive	