



North Central State College
SYLLABUS ADDENDUM

Academic Division: BIT Discipline: Engineering Technology
Course Coordinator: _____
Course Number: MECT 4010 Course Title: Applied Fluid Mechanics
Semester / Session: FA26B Start / End Date: 10/19/26 – 12/11/26

Instructor Information

Name: Dan Wagner Phone Number: _____
E-Mail Address: dwagner@ncstatecollege.edu
Office Location: _____ Office Hours: By apt.

I. Topical Timeline (Subject to Change):

Class	Date	Topic	Chapter/section	Homework
1		Pressure and Measurement, Compressibility, Viscosity	1, 2, 3	
2		Static Fluid Forces, Buoyancy	4, 5	
3		Bernoulli's Equation (Applications and Restrictions)	6	
4		Fluid System Energy Equations, Laminar and Turbulent Flow	7,8	
5		Review and Exam I	1 through 8	
6		Velocity Profiles (Laminar, Turbulent), Minor Losses in Fittings	9, 10	
7		Series Pipeline Systems	11	
8		Parallel Pipeline Systems	12	
9		Pump Types, Pump Performance, Pump Selection	13	
10		Review and Exam II	9 and 13	
11		Open-Channel Flow	14	
12		Flow Measurements	15	
13		Forces Due to Fluids in Motion	16	
14		Lift and Drag	17	
15		Gas Flow and Pressure in Pipes, Gas flow in Ducts	18,19	
16		Review and Exam III	14 through 19	

II. Course Assignments:

1. Labs 20%
2. Exams 60%
3. Homework 10%

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III. Grading and Testing Guidelines:

- a. See Canvas

IV. Examination Policy:

1. The reasons for which a student will be excused from taking an examination
 - a. Hospitalization (with documented verification)
 - b. Death in the immediate family (with documented verification)
 - c. Personal illness or illness in immediate family - (doctor's excuse required).
2. A student who misses an examination for any reason is responsible for contacting the instructor prior to the exam.
3. No makeup opportunity will be given for absences of quizzes.

V. Class Attendance and Homework Make-Up Policy:

1. Class attendance is necessary to acquire the knowledge required to meet the course objectives
2. Students are responsible for completing all homework assignments on time, 10% penalty per day will be applied for late work

VI. Classroom Expectations:

Actively participate in class and with team members during group work.