CEEN 3716L - Fluid Mechanics Lab

Fall 2026 Syllabus, Section 01, CRN 40984,

Credit hours: 1

Instructor

Suresh Sharma

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Public Instructor Information

Instructor Title: Associate Professor
Instructor Professional Qualifications: PhD in Civil Engineering from Auburn University
Instructor Office Location: Moser Hall 2413
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Course Description

3716L. Fluid Mechanics Lab. Experimental verification of the principles of fluid mechanics as applied to incompressible fluid. Three hours laboratory per week. Prereq.: CEEN 2602. Coreq.: CEEN 3716. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	(CEEGR 3716L) Manual	Dr. Irfan A. Khan	

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Tue	8/25	Lab Experiment 1	Statistics	Report due on 9/1
Tue	9/1	Lab Experiment 2	Viscosity Variation with Temperature	Report due on 9/8
Tue	9/8	Lab Experiment 3	Hydrostatic Force and Centre of Pressure	Report due on 9/15
Tue	9/15	Lab Experiment 4	Forced Vertex	Report due on 9/22
Tue	9/22	Lab Experiment 5	The Bernoulli Theorem	Report due on 9/29
Tue	9/29	Lab Experiment 6	Impact of Jet	Report due on 10/6
Tue	10/6	Lab Experiment 7	Discharge from an Orifice	Report due on 10/13
Tue	10/13	Lab Experiment 8	Discharge over a Weir	Report due on 10/20
Tue	10/20	Lab Experiment 9	Major Losses in Pipe Flow	Report due on 10/27
Tue	10/27	Lab Experiment 10	Minor Losses in Pipe Flow	Report due on 11/3
Tue	11/3	Brainstorming New Ideas for the Final Project		
Tue	11/10	Lab Work for the Selected Final Project		Project Report due on 11/24
Tue	11/24	Final Project Presentation		Project Report Due on 11/24

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.