Course Syllabus: CE 360 - Fluid Mechanics

CE 360: Fluid Mechanics

Instructor:
Dr. Folmar
Email: ndf100@psu.edu

Required Textbook:

Lecture Materials:
Recorded Lectures will be posted on Angel

Course Objectives:
(1) Obtain a solid understanding of the fundamentals of Fluid Mechanics
(2) Obtain the availability to know which fluid mechanic equations should be used to solve certain real-world engineering problems
(3) Obtain the ability to use fluid mechanics theory to solve real-world applications

Topics Covered in Class:
Fluid Properties
Fluid Statics
Fluid Dynamics and Kinematics
Finite Control Volume and Analysis
Similitude, Dimensional Analysis, and Modeling
Pipe Flow
Flow Over Surfaces
Open Channel Flow
Turbomachines

Homework:
There will be 10 problem sets worth 20% of your grade.
Homework handed in up to 12 hours late will receive 30% off. Late homework MUST be handed in electronically in the dropbox in Angel.

Exams:
There will be three proctored exams each worth 25% of your grade.
You will be allowed one cheat sheets (8 1/2 x 11 inches - both sides).

Participation:
Adherences to course requirement will be the remaining five percent of the total grade.
**Grading Scale:**
The standard grading system will be used to assign final letter grades in the course.

A   = 93-100
A-  = 90-92.9
B+  = 87-89.9
B   = 83-86.9
B-  = 80-82.9
C+  = 76-79.9
C   = 70-75.9
D   = 60-69.9
F   = 0-59.9

**Attendance:**
Students are expected to watch the recorded lecture videos posted on Angel in their entirety and regularly.

**Academic Integrity:**
The University defines academic integrity as the pursuit of scholarly activity in an open, honest and responsible manner. All students should act with personal integrity, respect other students’ dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts (refer to Senate Policy 49-20 (Links to an external site.)Links to an external site.).

Dishonesty of any kind will not be tolerated in this course. Dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Students who are found to be dishonest will receive academic sanctions and will be reported to the University's Office of Student Conduct for possible further disciplinary sanctions (refer to Senate Policy G-9 (Links to an external site.)Links to an external site.).

**Students with Disabilities:**
Penn State welcomes students with disabilities into the University's educational programs. If you have a disability-related need for reasonable academic adjustments in this course, contact the Office for Disability Services (ODS) at 814-863-1807 (V/TTY). For further information regarding ODS, please visit the Office of Disability Services website at http://equity.psu.edu/ods/ (Links to an external site.)Links to an external site.

In order to receive consideration for course accommodations, you must contact ODS and provide documentation. If the documentation supports the need for academics adjustments, ODS will provide a letter identifying appropriate academics adjustments. Please share this letter and discuss the adjustments with your instructor as early in the course as possible. You must contact ODS and request academic adjustment letters at the beginning of each semester.