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Fall 2015

## ENME 3716

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*University of New Orleans*

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### Recommended Citation

Guillot, Martin, "ENME 3716" (2015). *University of New Orleans Syllabi*. Paper 511.  
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# ENME 3716: Fluid Mechanics Lab, Fall 2015

Instructor: Dr. Martin Guillot  
Lab: Friday 1:00-3:40 pm  
Office: EN 924, Ph 280-6184  
email: mjguillo@uno.edu  
Office Hours: 1:00-3:00 T, Th, or by prior arrangement

## Policies

- Lab reports are due at beginning of next lab period.
- 10 pts/day deducted for late lab reports. No credit will be given for any lab more than one week late. NO EXCEPTIONS!!!!
- ATTENDENCE: **Attendance is mandatory for all labs, including lectures.** Missing lecture will result in 5 point deduction from final grade each time. Missing lab will result in a zero for that lab. Lab begins promptly at 1:30. After lab begins, the door will be locked and no student will be allowed in after lab has started. The student will not be allowed to make up that lab (will receive a grade of zero).
- If a student has an excused absence from a lab, the student will have to make up the lab. The student is not allowed to simply get the data from somebody else.
- Unexcused absences will not be allowed to be made up - the student will receive a zero for that lab. More than one unexcused absence results in an automatic F in the course.

Grade Distribution:        2 quizzes @ 12.5% each: 25%  
                                  6 reports @ 12.5% each: 75%

Grading:            100.0-90.0 A  
                          89.9-80.0 B  
                          79.9-70.0 C  
                          69.9-60.0 D  
                          < 60.0 F

## **Academic Integrity**

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

**INSTRUCTOR STATEMENT ON ACADEMIC DISHONESTY:** Any student caught sharing lab results, or any report will result in a zero for that lab for ALL students involved. Any student caught using old lab reports will receive a zero for that lab, and will have the matter referred to student affairs for discipline.

## **Accommodations**

It is University policy to provide, on a flexible and individualized basis, reasonable

accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.

**Outcomes of Instruction:**

After successfully completing this course each student will be able to:

1. Students will demonstrate the analytical skills they have acquired in the fluid mechanics class, and apply them to representative problems in fluid mechanics.
2. Teach students to use modern data acquisition techniques to gather scientific data, and will use current computational techniques to reduce the data.
3. Teach the student to communicate and document his/her work clearly and concisely by writing laboratory reports to present the results of the experiments performed.
4. Have the students work in groups, with each person in the group responsible for a specific task. Students must work in cooperation with each other to complete each experiment.

<u>Experiment</u>	<u>Title</u>
1	Force on a Submerged Object
2	Fluid Meters
3	Impact of a Jet of Water
4	Pressure Distribution Around a Cylinder in Crossflow
5	Pipe Flow
6	Pump and System Curves

**SCHEDULE**

<u>Date</u>	<u>Topic</u>
8/21/15	Hand out syllabus, Explain lab procedures to students.
8/28/15	Lecture on lab report writing.
9/4/15	No lab
9/11/15	Lecture on Experiments 1,2,3
9/18/15	Perform Experiments 1,2,3
9/25/15	Perform Experiments 1,2,3
10/2/15	Perform Experiments 1,2,3
10/9/15	Quiz on Experiments 1,2,3
10/16/15	Mid-term break, no lab
10/23/15	OPEN, TBD
10/30/15	Lecture on Experiments 4,5,6
11/6/15	Perform Experiments 4, 5 ,6

11/13/15	Perform Experiments 4,5,6
11/20/15	Perform Experiments 4,5,6
11/27/15	Thanksgiving Holiday, no lab
12/4/15	Quiz on Experiments 4,5,6