

THE UNIVERSITY OF TEXAS RIO GRANDE VALLEY

College of Engineering and Computer Science

Department of Mechanical Engineering

MECE 3115 Fluid Mechanics Laboratory – Summer I 2016

Room: ENGR 1.470

Time: MTW 8:10 AM – 11:10 AM

Instructor: Samantha Ramirez

E-mail: samantha.ramirez@utrgv.edu

Website: <http://faculty.utrgv.edu/samantha.ramirez/>

Office: ENGR 3.216

Office Hours: N/A

Course Pre-requisites: Credit for or enrollment in MECE 3115 Fluid Mechanics

Pre-requisite Knowledge:

- Derivatives, integrals, and their applications.
- Use of computer spreadsheets.
- Basic measurements and instrumentations.

Lab Equipment:

- Lab handouts from website
- Safety glasses
- Permanently bound gridded notebook (Composition notebooks preferred)
- Appropriate lab clothing

Topics:

- Viscosity Measurement
- Bernoulli's Principle
- Instrumentation and Calibration
- Pipe Flow
- Closed Channel Flow

Grading Policy:

Lab Reports	60%
Lab Notebook	20%
Quizzes	10%
Attendance	10%

Grades:

- You will have a total of 7 lab reports to submit. Each report should follow the designated lab report format found on my website. Unless otherwise informed, lab reports are due 1 week from the completion of the lab and are to be handed in within the first 10 minutes of the laboratory meeting.
 - Make every effort to turn in the lab reports on time. Once you get behind, it can be very difficult to catch up. Lab reports submitted late will have the score reduced by 20 points per day. Lab reports submitted more than 5 days late will not be accepted for credit and you will receive a 0 for that lab. **NO EXCEPTIONS.**
 - It is mandatory to submit electronic copies of your lab reports in Blackboard to be checked for plagiarism. If your reports are not submitted by 11:59 PM of the day they are due, you will not receive credit for the report.
- Your lab notebook entries will be graded on Blackboard. You are required to scan and submit a .PDF or .docx of your lab notebook entry for the day on Blackboard by Wednesday of the week you completed the labs at 11:59 PM. **Any file format other than .pdf or .docx will not be graded.**
- You will be taking daily quizzes covering the lab procedures on Blackboard Learn before beginning your lab. Quizzes close out at 8:10 AM of the day you must complete the quiz. You are not allowed to make up or retake quizzes.
- Attendance and participation in laboratory sessions are **mandatory**. Any student with more than 1 absence will be dropped from the class. No credit will be given for laboratory reports from missed laboratory sessions without an excused absence.

Course Outcomes and Assessment:

The student should be able to

1. Understand the basis for common fluid behavior.
2. Perform and utilize general techniques of measurement.
3. Perform basic statistical analysis.
4. Write technical memos or technical laboratory reports.
5. Read, interpret, and apply industrial or voluntary standards.
6. Function in a single or multi-disciplinary team.
7. Adhere to basic laboratory safety guidelines.
8. Record information in a technical laboratory notebook.

Scholastic Integrity:

As members of a community dedicated to Honesty, Integrity and Respect, students are reminded that those who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. Scholastic dishonesty includes but is not limited to: cheating, plagiarism, and collusion; submission for credit of any work or materials that are attributable in whole or in part to another person; taking an examination for another person; any act designed to give unfair advantage to a student; or the attempt to commit such acts. Since scholastic dishonesty harms the individual, all students and the integrity of the University, policies on scholastic dishonesty will be strictly enforced (Board of Regents Rules and Regulations and UTRGV Academic Integrity Guidelines). All scholastic dishonesty incidents will be reported to the Dean of Students.

Drop Policy:

Students can withdraw from a course through the *Office of the Registrar* on or prior to:

- July 1, 2016: Drop/Withdrawal Deadline; last day for students to drop the course and receive a “DR” grade. After this date, students will be assigned a letter grade for the course that will count on the GPA.
- July 4, 2016: 4th of July Holiday – No classes

Course Drops:

According to UTRGV policy, students may drop any class without penalty earning a grade of DR until the official drop date. Following that date, students must be assigned a letter grade and can no longer drop the class. Students considering dropping the class should be aware of the “3-peat rule” and the “6-drop” rule so they can recognize how dropped classes may affect their academic success. The 6-drop rule refers to Texas law that dictates that undergraduate students may not drop more than six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. The 3-peat rule refers to additional fees charged to students who take the same class for the third time.

Students with Disabilities:

If you have a documented disability (physical, psychological, learning, or other disability which affects your academic performance) and would like to receive academic accommodations, please inform your instructor and contact Student Accessibility Services to schedule an appointment to initiate services. It is recommended that you schedule an appointment with Student Accessibility Services before classes start. However, accommodations can be provided at any time.

Brownsville Campus: Student Accessibility Services is located in Cortez Hall Room 129 and can be contacted by phone at (956) 882-7374 (Voice) or via email at accessibility@utrgv.edu.

Edinburg Campus: Student Accessibility Services is located in 108 University Center and can be contacted by phone at (956) 665-7005 (Voice), (956) 665-3840 (Fax), or via email at accessibility@utrgv.edu.

Sexual Harassment, Discrimination, and Violence:

In accordance with UT System regulations, your instructor is a “responsible employee” for reporting purposes under Title IX regulations and so must report any instance, occurring during a student’s time in college, of sexual assault, stalking, dating violence, domestic violence, or sexual harassment about which she/he becomes aware during this course through writing, discussion, or personal disclosure. More information can be found at www.utrgv.edu/equity, including confidential resources available on campus. The faculty and staff of UTRGV actively strive to provide a learning, working, and living environment that promotes personal integrity, civility, and mutual respect in an environment free from sexual misconduct and discrimination.

Course Evaluation:

Students are required to complete an ONLINE evaluation of this course, accessed through your UTRGV account (<http://my.utrgv.edu>); you will be contacted through email with further instructions. Students who complete their evaluations will have priority access to their grades. Online evaluations will be available July 3, 2016 – July 12, 2016 for the summer I term.

Acknowledgement of Syllabus & Safety:

There are two quizzes in Blackboard that you must take. The first is to acknowledge that you read and understand the syllabus for this class. The second is to ensure you know and understand basic safety rules for the lab. These quizzes need to be completed by Monday, June 6, 2016 at 11:59 PM.