Measurements Lab
ChE 3220 – Winter 2012

Lectures: 9:35 – 10:30 AM F, 2409 ENG
Laboratory: 10:40 – 1:30 PM F, 1320 ENG
Instructor: Professor Howard Matthew
1119 ENG
hmatthew@wayne.edu

Instructor: Professor Guangzhao Mao
1109 ENG
gzmao@eng.wayne.edu

Office Hours: by appointment

Teaching Assistants: Huali Wang (ba3618@wayne.edu)
Jian Zhu (et0086@wayne.edu)
Feifei Ju (es1559@wayne.edu)

Office Hours (TAs): TBA

Course Objectives: (1) To gain an understanding of the relationship between theory and practice. (2) To learn how to collect and analyze experimental data. (3) To learn the concepts of teamwork, effective communication and safety in a working environment. (4) To gain expertise in technical report writing. (5) To use common software programs (e.g., Excel, MATLAB) to solve engineering problems.

Grading system: Reports 70 POINTS
Presentations 30 POINTS

Grading Scale: A: 100-85%; B: 84 – 70%; C: 69-55%; D: 54-35%.

Lab Groups: Groups (3 max) will be designated by the instructors. The groups will remain the same for all experiments.

Laboratory conduct: Students should behave in a professional manner while in the lab. No eating/drinking inside the lab. Protective gear should be worn at all times (safety glasses, long pants, lab coat and no open toe shoes). The TAs and instructors should be immediately notified in case of any accidents.

Course Web page: On Blackboard. Visit the class website frequently for announcements and materials related to class. Any changes in the syllabus will be posted online. All course communications will be sent to your “wayne.edu”
email address. If you have another preferred e-mail address, remember to forward e-mail from your wayne.edu account to the other address.

**Prerequisites:**

Prerequisites and co-requisites are checked automatically at the time of registration. However, it is ultimately a student's responsibility to make certain that they have the prerequisites and co-requisites for a course. Students must remain registered for a co-requisite course throughout the semester. Advisors will check course prerequisites and co-requisites during the 5th and 6th week of the semester. Any student found to be registered for a course without meeting these requirements, and without an official waiver on file, will be administratively withdrawn from the course.

**Disabilities:**

If you feel that you may need an accommodation based on the impact of a disability, please feel free to contact the Instructor(s) privately to discuss your specific needs. Additionally, The Student Disability Services (SDS) office is located coordinates reasonable accommodations for students with documented disabilities. The SDS Office is located in Room 1600 of the David Adamany Undergraduate Library, in the Student Academic Success Services department. The telephone number is 313-577-1851 or 313-577-3365 (TTY: telecommunication device for the deaf; phone for hearing impaired students only). Student Disability Services’ mission is to assist the university in creating an accessible community where students with disabilities have an equal opportunity to fully participate in the educational experience at Wayne State University.

**Withdrawals:**

1. Effective Fall 2011, students must add classes no later than the end of the first week. During the second week of the semester, starting with Wednesday, September 7, students must personally request departmental permission in order to register. If departmental permission is granted, students must register themselves for the class in Pipeline during the second week. Receiving departmental permission is NOT the same as registering for the class. Students may continue to drop classes (with full tuition cancellation) through the first two weeks of the term.

2. After the end of the 4th week of the semester, instructor approval is required. This must be requested through the University withdrawal system on Pipeline.

3. Effective Fall 2011, the withdrawal deadline from this semester forward will change from the WSU designated “Study Day” at the end of the 14th week of classes to the end of the 10th week of classes. Beginning Fall 2011, students who wish to withdraw must initiate the request in Pipeline no later than Saturday, November 12, 2011. After the deadline, the Withdraw option will not be available in Pipeline. The Registrar’s Office does not grant exceptions to this deadline so please plan ahead and mark your calendar.

4. ANY grade of WP, WF, or WN that appears on your transcript will count as a substandard grade when determining the number of allowed repeats in a student’s program. (Refer to the Pre-Professional Handbook or Graduate Bulletin for specific policies on allowed number of repeats.)
5. Due to the fact that Withdrawals will count as a substandard grade, students should consider carefully whether or not they will withdraw from the course after the fourth week.

6. Students who feel that extenuating circumstances (e.g., extended illness, family emergency, out-of-town work responsibilities) justify the withdrawal should submit a petition in writing to the Associate Dean for Academic Affairs before the end of the semester. Supporting documentation should be included with the petition. These petitions will only be considered if submitted before the end of the semester in which the course is taken. If the petition is approved, a notation will be made in your advising record to not count the course among the allowed repeats.

7. If you have any questions about these policies, please contact your advisor.

**Incompletes:**

An Incomplete (I) or deferred grade is only allowed if: 1) the student is not presently failing the course, and 2) the bulk of the course has been completed and only a clearly defined portion remains to be done, and 3) the student can complete the required material without retaking the course and without significant faculty supervision. A deferred grade cannot be given merely because a student is not doing well in the class.

**Cheating:**

Students found cheating (e.g., plagiarizing) report or presentation content may receive a score of zero (0) for the assignment and may face additional disciplinary action. Due process action (expulsion or probation) might also occur through the University Judicial Officer.

For general WSU polices please visit [http://www.bulletins.wayne.edu/](http://www.bulletins.wayne.edu/)
### Schedule:

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**NOTES:**

- All reports to be submitted electronically via Blackboard (only).
  - **pre-lab:** due Tuesday before Friday’s lab. The pre-lab will be evaluated by the responsible TA by the end of the day on Wednesday. If your pre-lab is not appropriate (major issues regarding data analysis / interpretation is missing / wrong), it is your responsibility to have it fixed before the lab on Friday.
  - **lab:** due on or before Thursday, a week after the oral presentation for the respective lab.
  - Each group will turn in a single report (lab/pre-lab). It should be a single file submitted through Blackboard, with the following (exact) name GroupX_LabX_Labname. Word or PDF files may be submitted.

- **Oral Presentations**
  - Submit the ppt file the night (or very early morning) before presentation to hmatthew@wayne.edu and gzmao@eng.wayne.edu.
  - The student to present the report will be selected by Wed evening/Thurs AM before the presentation on Friday by the instructors – if you have not heard from us by then, contact us. The same presentation marks will be assigned for all other students in the group.