



**Syllabus for EGR 252.001**  
***Probability and Statistics for Engineers***  
**Spring Semester 2008**  
**MW 3:00 – 4:15 p.m.**  
**Room EGC 217 and 216A**

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**Instructor :** Dr. Joan Burtner, Associate Professor, Department of Mechanical and Industrial Engineering  
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**Textbooks and Supplies:**

Required: Walpole , R.E., Myers, R.H., Myers, S.L., & Ye, K. (2007). *Probability & Statistics for Engineers & Scientists (8 th ed.)* Upper Saddle River, NJ : Prentice Hall. (ISBN 0-13-187711-9)

**Bulletin Description:** Techniques and applications of probability and statistics. Variability and representation of data. Laws of probability, random variables and distributions. Confidence intervals and statistical hypothesis testing. Quality control and statistical inference. Design of experiments. Regression analysis. Use of spreadsheets and statistical software packages.

**Course Objectives:** Upon successful completion of this course, students should be able to:

- Use probability and statistics particularly in the areas of
  - Representation of data
  - Statistical inference
  - Design of experiments
  - Regression analysis
- Use software programs such as Excel and Minitab to perform statistical analyses.

**Prerequisites:** C or better in MAT 191

**Grading:**

Quizzes	20%	Exercises	15%
Exam 1	20%	Final Exam	25%
Exam 2	20%		

**Course Standards:**

Homework problems will be assigned but neither collected nor graded. Quizzes will be administered on Wednesdays and will be based on assigned homework problems. Exam 1 and Exam 2 will be closed-book, closed-notes. **No make-up exams or quizzes will be given.** The final exam will be open-book, closed-notes.

Attendance will be taken each time class meets and all students are expected to attend all classes. Although failure to attend class in itself will not adversely affect your final grade, good attendance and class participation will be looked upon favorably.

Please turn off cell phones and pagers before entering the classroom.

The **honor code** provisions as outlined in the *Catalog* and in the student handbook, *The Lair*, will be assumed for everyone. It should be clear from this document and class discussion which assignments can be collaborative and which ones must be individual. When in doubt, please ask. Plagiarism is a violation of the honor code and is prohibited.

**Student Support Services Policy:**

Students requiring accommodations for a disability should inform the instructor at the close of the first class meeting or as soon as possible. If you are not registered with Disability Services, the instructor will refer you to the Disability Support Services office for consultation regarding documentation of your disability and eligibility for accommodations under the ADA/504. In order to receive accommodations, eligible students must provide each instructor with a "Faculty Accommodation Form" from Disability Services. Students must return the completed and signed form to the Disability Services Coordinator on the 3rd floor of the Connell Student Center. Students with a documented disability who do not wish to use academic accommodations are also strongly encouraged to register with Disability Services and complete a Faculty Accommodation Form each semester. For further information, please contact Carole Burrowbridge, Disability Services Coordinator, at 301-2778 or visit the website at [http://www.mercer.edu/stu\\_support/swd.htm](http://www.mercer.edu/stu_support/swd.htm)

**Electronic Communication:**

Electronic communication is an important adjunct to face-to-face communication, including from professor to students, students to professor, and students to students. You must have regular access to your email. If you do not have an active **Mercer email** address on the first day of class, please secure one. By enrolling in this class, you have been automatically subscribed to the class listserv (EGR25200108S@Mercer.edu). File-naming conventions for electronically submitted documents will be prescribed in order to avoid needless confusion.

January 8, 2008