



Syllabus for EGR 312.001
Engineering Economy
Fall Semester 2015
TR 1:40 – 2:55 p.m.
Room EGC 218 / 216A

Instructor: Dr. Laura Moody, Associate Professor
Department of Industrial Engineering & Industrial Management

Office: 201G, School of Engineering

Phone: 301-2349 (w)

Email: moody_le@mercer.edu

Textbooks and Supplies:

Required: Blank, L. and Tarquin, A. (2005.) *Engineering Economy – 7th edition*. New York: McGraw-Hill Higher Education. (ISBN 0-07-337630-2)

Web Site: http://faculty.mercer.edu/moody_le/egr312home.htm

Bulletin Description: Economics in engineering decision making, interest and present worth, depreciation, economic analysis of engineering alternatives. Project management, budgeting and cost estimation, and economic analysis. The use of software tools in economic analysis and project management.

Course Objectives: Upon successful completion of this course, you should be able to do the following:

1. Demonstrate an understanding of Engineering Economy principles.
2. Analyze problems that an engineer would encounter on the job site through the use of Engineering Economy techniques.
3. Solve Engineering Economy problems by using spreadsheet software.
4. Work with a team of students to plan a project using the principles of project management.

Prerequisites: MAT 192.

Grading:

Daily Quizzes	10%
Project Management Project	15%
Exam I	25%
Exam II	25%
Final Exam	25%

Course Standards:

1. Homework problems will be assigned daily but not collected. **Instead, a quiz will be administered at the beginning of the class period on the date due.** The quiz will be open book, closed note and consist of 1 problem from the homework. The lowest two quiz grades will be dropped. I do not require homework to be an individual effort, but **all quizzes will be individual efforts.** Therefore, it is to your advantage to ensure that you understand how to solve all homework problems before entering class. Quizzes on the days following computer labs will cover the functions and problem solving steps used in the lab.
2. **Midterm exams** will be closed-book, closed-notes. **No make-up exams will be given.** The final exam will be open-book, closed-notes.
3. **Project Management Project:** A project management team project will be assigned. This project will consist of the development of project tasks, cost and timing estimates, and an analysis the critical path. Typically, all members of the team will receive the same grade, but I will reserve the right to adjust individual grades if it is clear that the workload or performance on the project is not equally shared.
4. All students are expected to attend all classes. Although failure to attend class in itself will not adversely affect your final grade, good attendance, class participation, and a good homework record will be looked upon favorably.
5. Please turn off cell phones before entering the classroom.
6. The **honor code** provisions as outlined in the *Bulletin* 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 to avoid potentially embarrassing situations. Plagiarism is a violation of the honor code and is prohibited.
7. Students requiring accommodations for a disability should inform the instructor at the close of the first class meeting or as soon as possible. The instructor will refer you to the ACCESS and Accommodation Office to document your disability, determine eligibility for accommodations under the ADAAA/Section 504 and to request a Faculty Accommodation Form. Disability accommodations or status will not be indicated on academic transcripts. In order to receive accommodations in a class, students with sensory, learning, psychological, physical or medical disabilities must provide their instructor with a Faculty Accommodation Form to sign. Students must return the signed form to the ACCESS Coordinator. A new form must be requested each semester. Students with a history of a disability, perceived as having a disability or with a current disability who do not wish to use academic accommodations are also strongly encouraged to register with the ACCESS and Accommodation Office and request a Faculty Accommodation Form each semester. For further information, please contact Carole Burrowbridge, Director and ADA/504 Coordinator, at 301-2778 or visit the ACCESS and Accommodation Office website at <http://www.mercer.edu/disabilityservices>.
8. This syllabus is subject to change. Changes will be announced in class and will appear on the class web site.