INEN 322 – Systems Simulation
Fall Semester 1998

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There is a world wide web site for this course (under the courses section at http://tamcam.tamu.edu/). Announcements, notes, homework assignments, and other information will be available at this site.

Course Meeting Times/Place
Class: Monday/Wednesday, 9:10 a.m. – 10:00 a.m.; Zachry 104A
Labs: Wednesday 3:00 p.m. – 5:50 p.m.; Zachry 301 (503) Thursday 11:10 a.m. – 2:00 p.m.; Zachry 301 (504)
Office Hours: Monday/Wednesday, 10:20 a.m.-11:10 a.m., Tuesday 8:00-9:30 a.m., or by appointment.
T.A. – Monday/Wednesday, 1:00 p.m.-3:00 p.m.

Course Description
Systems simulation structure, logic and methodologies; generation of random numbers and deviates; system simulation languages, models and analysis; applications to industrial situations.

Course Prerequisites: STAT 212

Course Text

In addition, Simulation Modeling and Analysis, by Law and Kelton (1991) will be used as a reference book.

Course Topics
Introduction (Chapter 1)
Review of probability and statistics (notes)
Random number generation (Notes, Chapters 2, 5)
Beginning the Study / Basic input data analysis (Notes, Chapter 2)
Basic SIMAN modeling concepts (Chapter 3)
Output analysis (Notes, Chapter 5)
Validation and verification of simulation models (Notes, Chapter 4)
Advanced modeling concepts (Notes, Chapters 6, 8)
Animation (Notes, Chapter 7)

Grading/Evaluation
Exam 1 (October 7) 20%
Exam 2 (November 18) 20%
Final Exam (December 14 – 8:00 - 10:00) 20%
Homework 20%
Course Project (Due on 12/8 @ noon) 20%

Homework
Homework must be turned in at the beginning of class on the day in which it is due. Late homework will not be accepted.
Course Project

The course project may be done individually or in groups of up-to 3 students. You are responsible for selecting your own groups and defining your own projects. Each group (or individual) will be required to submit a project proposal at a to-be-determined date.

Copyrighted Material

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