Spring 2016
EMIS 3360 Operations Research
TuTh 9:30-10:50am, Caruth 384

Catalog Description:
A survey of deterministic models and methods of operations research in a variety of areas will be covered. Credit is not allowed for both EMIS 3360 and EMIS 8360. Prerequisite: EMIS 1360.

Student Learning Outcomes: An ability to identify, formulate, and solve problems.

Instructor: Halit Uster  E-mail: uster@smu.edu
Caruth Hall 309  Phone: (214) 768 3575

Lab:
Lab time is utilized to provide help with software, lab assignments, and the study sets. You must enroll in one of the lab sessions which are Thursday 2:00-3:20pm and Wed 3:30-4:50pm in Caruth Hall 314. You must have a Lyle computer account to use the lab. You may use your own PC or Mac in the lab. Caruth 116 is an open lab.

TA:  Mamdouh Mubarak (Lab sessions)  E-mail: mmubarak@smu.edu

Book:

Topics:
Chapter 1  Introduction to the Origins of Operations Research
Chapter 2  OR Modeling Approach
Chapter 3  Linear Programming Models
Chapter 4  The Simplex Method
Chapter 6  Duality
Chapter 9  Transportation and Assignment Problems
Chapter 10  Network Optimization
Chapter 12  Integer Programming

Office Hours: My official office hours are TuTh 1:00-2:00pm. However, you can stop by anytime when I am in the office. Alternatively, and preferably, you can make an appointment by e-mail. I encourage each one of you to ask any questions you might have on the material during the lecture or right after the class. It is very much to your benefit to get these points cleared as soon as they occur. You are also strongly encouraged to come and see me in the office or make an appointment whenever you have problems.
Grading and Tentative Dates:

- **15%** Exam 1 - February 25, Thursday
- **20%** Exam 2 - April 7, Thursday
- **25%** Final Exam – May 5, 2016, Thursday, 8:00am
- **20%** Quizzes
- **10%** Lab Assignments
- **10%** Projects

Grading Scale:

- **[93-100]** A  
- **[90-93)** A-  
- **[87-90)** B+  
- **[78- 87)** B  
- **[75-78) B-  
- **[72-75) C+  
- **[62- 72) C  
- **[59-62) C-  
- **[48- 59) D

If you must miss an exam, quiz, or lab assignment, then I must be notified in advance. If your absence is not approved, then you receive a zero.

Online Course Management:

Course materials will be posted on blackboard. These materials will include handouts, study sets, announcements (also via e-mail), grades, and other materials as appropriate. Please check it regularly. Submit all lab assignments on blackboard (http://courses.smu.edu). Your lab, quiz, and test grades will be posted on blackboard. Please make sure that they are correct.

Software:

Download the student version of AMPL from www.ampl.com. It can be found at Products → AMPL → For Students: Free size-limited version. Alternatively, for larger problems, you can utilize the online version through NEOS server.

OTHER IMPORTANT INFORMATION

**Disability Accommodations:** Students needing academic accommodations for a disability must first register with Disability Accommodations & Success Strategies (DASS). Students can call 214-768-1470 or visit http://www.smu.edu/Provost/ALEC/DASS to begin the process. Once registered, students should then schedule an appointment with the professor as early in the semester as possible, present a DASS Accommodation Letter, and make appropriate arrangements. Please note that accommodations are not retroactive and require advance notice to implement.

**Religious Observance:** Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence. (See University Policy No. 1.9.)

**Excused Absences for University Extracurricular Activities:** Students participating in an officially sanctioned, scheduled University extracurricular activity should be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up the work. (University Undergraduate Catalogue)