MATH 4553, Linear and Nonlinear Programming

Spring 2011

MWF 2:30-3:20pm, Classroom: Life Science East 217

- Course description: Prerequisites: MATH 2163, MATH 3013. Linear programming, simplex methods, duality, sensitivity analysis, quadratic programming and constrained nonlinear programming.
- Instructor: Yanqiu Wang
 - o Office: 441 MATH (405-744-5698).
 - o Office Hours: MW 3:30-5:30pm or by appointment.
 - Email: yqwang (AT) math.okstate.edu
- Webpage: http://www.math.okstate.edu/~yqwang/teaching/math4553_spring11/
- Textbook: Linear programming with Matlab, M.C. Ferris, O.L. Mangasarian and S.J. Wright, MPS-SIAM Series on Optimization, 2007.

Supplementary reading: Linear Programming, Foundations and Extensions, R.J. Vanderbei, Springer, 3rd ed., 2008. (Electronic access to full text from OSU library).

Supplementary reading: Linear and Nonlinear Programming, D.G. Luenberger and Y. Ye, Springer 2003. (Electronic access to full text from OSU library).

- Grading policy: Your final grade will be based on the following:
 - o 6 homework, 20 points each (120pts);
 - o Two mid-term Exams, 50 points each (100pts);
 - o Final Exam (100pts): comprehensive;
 - o The Total is 320 pts: A (>=90%), B (>=80%), C (>=70%), D (>=60%).

Make-up policy:

- o Make-ups for exams will only be allowed for an authorized absence under University Regulations. Normally a written note is required. Student should contact the instructor to schedule a make-up by the end of the next working day after the missed exam.
- There is NO make-up for homework assignments. You sacrifice 5 points per day for each late homework assignment.
- Syllabus Attachment Check http://osu.okstate.edu/acadaffr/aa/syllabus.htm (Syllabus Attachment) for university-wide rules regarding dropping a course, academic integrity, and office of student disability services.