MATH 4513, Numerical Mathematics: Analysis   Fall 2014
MWF 1:30-2:20 pm, MSCS 514

- **Course description:** Prerequisite(s): 2233, 3013, knowledge of programming or consent of instructor. Machine computing, algorithms, and analysis of errors applied to interpolation and approximation of functions solving equations and systems of equations, discrete variable methods for integrals and differential equations. (Same course as CS 4513)

- **Instructor:** Yanqiu Wang
  - Office: 441 MATH (405-744-5698).
  - Office Hours: MF 10:30 – 11:30 am, or by appointment.
  - Email: yqwang (AT) math.okstate.edu
- **Webpage:** http://www.math.okstate.edu/~yqwang/teaching/math4513_fall14/

- **Textbook:** *Numerical Analysis*, R.L. Burden and J.D. Faires, 9th ed.
  Supplementary readings:
  - *Numerical analysis: mathematics of scientific computing*, D.R. Kincaid and E.W. Cheney.
  - *Applied Numerical Analysis*, C.F. Gerald and P.O. Wheatley.
  - *Theory and Applications of Numerical Analysis*, G.M. Phillips and P.J. Taylor.
  - *Numerical Methods with Matlab*, G. Recktenwald. (http://web.cecs.pdx.edu/~gerry/nmm/)
  - *Numerical computing with Matlab*, C. Moler. Free available at http://www.mathworks.com/moler/index_ncm.html

- **Grading policy:** Your final grade will be based on the following:
  - Homework assignments (5*20 points);
  - Mid-term exam (100 points);
  - Final Exam, comprehensive (150 points);
  - The Total is 350 points: A (>=90%), B (>=80%), C (>=70%), D (>=60%).

- **Make-up policy:**
  - 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://academicaffairs.okstate.edu/faculty-a-staff/ (Syllabus Attachment) for university-wide rules regarding dropping a course, academic integrity, and office of student disability services.