COT 4500, Numerical Calculus  
Spring 2008, January 7 – April 28, 2008

Instructor: Dr. S. Lang (207 Harris Center, 407-823-2474, lang@cs.ucf.edu)  
Office Hours: 2 – 4 pm, Monday and Wednesday  
Topics: Chapters 1 – 7

Course Objectives:
- To understand the mathematical foundation used in numerical methods  
- To understand numerical algorithms and their time and space complexity analysis  
- To understand how numerical methods are used in solving problems in sciences and engineering applications  
- To practice numerical methods using computer programs and packages

Course Work:
- Class attendance (5%)  
- Homework assignments, including lab work using MatLab (25%)  
- Two Tests (20% each), test dates will be announced one week in advance  
- Final Exam (30%), see UCF’s final exam schedules posted at http://www.registrar.sdes.ucf.edu/calendar/exam/

Grading Policy:
- Homework assignments are due in class on the due dates; no late assignments are accepted unless prior arrangements are made  
- No make-up tests or exam unless prior arrangements are made  
- Homework (and tests) represent individual work, no “team” work or plagiarism will be accepted  
- Grades are based on the straight-percentage scale, i.e., A (90% or up), B (80 – 89.99%), C (70 – 79.99%), D (60 – 69.99%), and F (below 60%); plus/minus grades will be used sparsely (if at all)

Academic Integrity and Student Conduct: Please read and understand student rights and responsibilities including conduct rules clearly stated in UCF’s golden rules, available at http://www.goldenrule.sdes.ucf.edu/2e_Rules.html

Course Website and Announcements: www.cs.ucf.edu/courses/cot4500/spr2008 (updated frequently)

Online Resources: The authors’ course website http://www.as.ysu.edu/~faires/Numerical-Analysis/ includes computer program source codes for the algorithms discussed in the text, and an errata sheet.