SYLLABUS

Course: Numerical Analysis I, MATH/CS 405/405G-001, 3 credit hours, Fall 2008

Class Meetings: 11:10 a.m. - 12:30 p.m. T R in TCCW 369

Instructor: Dr. Mark Robinson
Office: TCCW 328
Phone: 745-6223
E-Mail: mark.robinson@wku.edu
Office Hours (Tentative): 9:10-10:05 a.m. MWF
9:35-10:55 a.m. TR
or by appointment


Purpose of Course: This course is the first in a two-course sequence that introduces students to the theory and application of numerical methods that are commonly used in scientific computing.

Prerequisites: MATH 307 or 310 or 327; and CS 230 or CS 240 or permission of instructor.

Course Outline: Topics from Chapters 1-4 and 8 of the text. Additional topics will be introduced as needed.

Attendance: Regular class attendance is strongly recommended. It is the responsibility of the student to find out what work and announcements were missed during an absence.

Audit Policy: No more than four absences are allowed to receive an audit.

Homework: Homework will be assigned regularly and selected problems will be collected and graded. Credit will be taken off on any late assignment unless there is an acceptable excuse as judged by the instructor. Some of the assignments will include programming problems to be solved using a computer; any programming language will be acceptable. Some use will be made of the software package Mathematica, but no prior knowledge of Mathematica is assumed.
**Exams:** There will be two 80-minute examinations and a two-hour comprehensive Final Exam. The *tentative* schedule for the 80-minute exams is as follows:

- Exam #1      Thursday, October 9
- Exam #2      Tuesday, November 18

Any change in this schedule will be announced in class several days in advance of the affected exam. The Final Exam is scheduled for 8:00-10:00 a.m. on Friday, December 12.
**Make-Up Policy:** Missing an exam is a serious matter. A make-up for a missed exam will be given only in the most extreme instances if there is an acceptable excuse as judged by the instructor; otherwise a zero will be assigned.

**Students Enrolled for Graduate Credit:** As indicated in the WKU Graduate Catalog, any student enrolled in a 400-level course for graduate credit is expected to complete additional course requirements as prescribed by the instructor. Students enrolled in 405G will be assigned additional work to fulfill this requirement.

**Grading:**

**MATH/CS 405:**
- Two 80-minute exams: 40%
- Homework: 30%
- Final Exam: 30%

**MATH/CS 405G:**
- MATH/CS 405 components, with relative weights as shown above: 85%
- Additional work for graduate students: 15%

The grading scale will be approximately as follows (the final scale may vary somewhat):
- 90-100% A
- 80-89% B
- 70-79% C
- 60-69% D
- 0-59% F

Borderline cases will be given special consideration and factors such as attendance, class participation, improvement, and final mastery of course content (as reflected by the Final Exam) will be taken into account.

**Calculators:** The use of calculators on homework and exams is encouraged.

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**Student Disability Services**
In compliance with university policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Office for Student Disability Services in Downing University Center, A-200. The phone number is 270 745 5004.

Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.