Syllabus

MATH 781
Numerical Analysis I
Fall 2016
454 Snow, 11:00-12:15 TR

Instructor: Erik Van Vleck
Office: Snow 504
Office Hours: TR 1:00-1:45


Grades:
Homework (25%)
2 Midterm Exams (40%)
1 Final Exam (35%)

Important Dates:
Midterm 1 (in class) on Tuesday, October 4
Midterm 2 (in class) on Thursday, November 17
Final Exam Friday, December 16 (10:30-1:00)

Topics:
Chapter 1 - Floating point computation
Chapter 2 - Linear algebraic systems
Chapter 3 - Interpolation and approximation
Chapter 4 - Zero finding
Chapter 5 - Numerical integration
Chapter 6 - Initial value ordinary differential equations

Goals:
(1) gain experience with modern mathematical software
(2) learn the potential weaknesses of floating point arithmetic
(3) learn basic methods for automatic error control

Additional course materials will be available during the semester at
www.math.ku.edu/~evanvleck/math781.html

Assignments due at the beginning of class.

NO LATE ASSIGNMENTS ACCEPTED UNDER ANY CIRCUMSTANCES