Queens College, CUNY, Department of Computer Science

Numerical Methods

CSCI 361 / 761

Summer 2019

Instructor: Dr. Sateesh Mane

Course Website: `http://venus.cs.qc.cuny.edu/~smane/cs361/`

Classes: Mo/Tu/We/Th 12:00 noon – 1:34 pm, SB D135; 3 hr., 3 cr.

Prerequisites: CSCI 220 and 313; Math 152 and 231.

Textbook (required): Timothy Sauer, *Numerical Analysis*, 2^{nd} ed.

Course Description & Learning Goals:

- The lectures will cover the following topics: solutions of nonlinear equations, applied linear algebra, interpolation of data, numerical differentiation and integration. Also (if time permits) numerical solution of ordinary differential equations. *The order of the lectures may not be the same as the order of the topics in the list above.*
- Students will be expected to display independent thought, not simply memorization of formulas.
- Students will be expected to write programming code in C++ and Java.
- **Students will be expected to carry out mathematical computations in class, using a calculator and/or laptop, including questions for in-class exams.**

Grade Policy: The grading policy is as follows.

- The exams will consist of one midterm (Thursday 7/25/2019) and a final (Monday 8/12/2019).
- Some exam questions will be mandatory for graduate students and optional for undergraduates.
- The scope of exams is cumulative (all course material lectured up to the date of the exam).
- All graded exams have equal weight.
- **Submission of plagiarized answers to exam questions will result in a failing grade for the course.**
- **Any question for which a student submits two or more different answers automatically receives a score of zero for that question.**
- **Students who are no show or fail any exam will fail the entire course.**
- Students are expected to submit work of sufficient quality to pass the course on their own merits, without expectation of a curving of grades. Specifically, note the following:
  - A grade of 'D' will not be changed to 'F' at student request.
  - A grade of 'WU' will not be changed to 'F' at student request.
  - A failing grade will not be changed to a passing grade at student request.

Academic Policy: Academic dishonesty such as plagiarism or cheating will be dealt with seriously in accord with the University's policy on academic integrity.
A student caught cheating on any question in an exam will fail the entire course.