

Numerical Methods, Math 685 / OR 682

Fall 2018

- **Instructor:** Tyrus Berry, tberry@gmu.edu, <http://math.gmu.edu/~berry/>
- **Office:** Exploratory Hall, room 4452
- **Office hours:** TR 2:00pm-3:30pm, and by appointment.
- **Course Website:** Blackboard, <https://mymasonportal.gmu.edu/>
- **Book:** Numerical mathematics, by Alfio Quarteroni, Riccardo Sacco, and Fausto Saleri, SECOND EDITION (2007)
Errata and code for the book can be found at: <https://cmcs.epfl.ch/books/erratacorrige>
- **Topics:** The course will cover portions of Chapters 1-12 of the text.
- **Course Goals:** Mathematical analysis and implementation of algorithms for the solution of scientific and engineering problems.
- **Classroom:** Exploratory Hall, Room 4106

1 General Comments

Grades in the course will be based on your INDIVIDUAL effort on the exams and projects. Discussion of course topics with others is helpful and encouraged; however, all work toward the solution of homework projects submitted for credit, including computer code and written summaries, must be done SOLELY by you.

Matlab will be used for homework projects. It is available on campus in the computer labs. Alternatively, a student version can be purchased. A Matlab tutorial can be found at

<https://www.mathworks.com/support/learn-with-matlab-tutorials.html>

There are computer labs on campus. For hours of operation see

<http://doit.gmu.edu/students/computer-labs/computer-lab-locations/>

You may also access Matlab through the Virtual Computing Lab: <https://www.vcl.gmu.edu>

2 Grading

- **Bi-weekly Homework:** 40%
 - **Homework should be submitted online via Blackboard in PDF format.**
 - Homework will be accepted late for up to $\frac{1}{2}$ credit and lowest grade will be dropped.
- **Cumulative Exams:** 60%
 - Midterm 1: Oct. 2nd (tentative), 15%
 - Midterm 2: Nov. 6th (tentative), 15%
 - Final Exam: Dec. 13th, 10:30am-1:15pm, 30%
- **Corrections:** Midterm exams can be resubmitted for up to $\frac{1}{2}$ of missed credit.