

Math 385/685: Numerical Methods I

Lecture: MTWTh 5:45pm, North C111
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Office Hours: TBD
Lab Sessions: June 3, 5, 10, 12, 17, 19
Text: *Numerical Methods for Mathematics Students*
Author: John Loustau
Programming Resource: *Mathematica 9*

Get Mathematica 9 at <http://www.hunter.cuny.edu/it/it-services/mathematica>

Topics

1. Basic *Mathematica* Programming
2. Finding Roots
3. Interpolation and Fitting
4. Numerical Differentiation & FDM
5. Numerical Integration & Methods for ODE

Grading

Programming exam	20%
Midterm	20%
Final	40%
Homework	20%

Rules

1. Separate assignments, exams, and grading for Math 385 and 685.
2. Exams will include short answers, derivations, and proofs.
3. No late homework accepted.
4. Homework can be submitted either physically (CD/DVD) or electronically (e-mail, git, FTP).
5. Code files must be unambiguously titled (put your name in the filename).
6. All code must be submitted electronically.
7. Any submitted code must compile and run error-free.
8. All work is done individually.
9. No incompletes awarded without explicit agreement.