

3450:427/527-001 Applied Numerical Methods I, Summer 2017
Dr. Kevin Kreider, CAS 273, (330) 972-7519, kreider@uakron.edu
web page:

<http://www.math.uakron.edu/~kreider/>

Office Hours: by appointment

Optional Text: *Numerical Methods Using MATLAB*, 4th edition, Mathews and Fink, Prentice-Hall, 2004.

Policies:

1. If you have any questions or concerns about this course, don't hesitate to talk with me.
2. Course grades are determined by a total of 400 points:
 - 200 pts 2 exams (100 pts each)
 - 200 pts homeworkThe tentative grade scale is: A (368-400), A- (360-367), B+ (352-359), B (328-351), B- (320-327), C+ (312-319), C (288-311), C- (280-287), D (240-279), F (0-239).
3. Homework problems will be assigned and collected regularly. Some problems are done on paper, and many involve writing MATLAB computer code.
4. There will be two exams. The first covers root finding and linear algebra, and the second covers interpolation, curve fitting and integration. Exams will have both computational and theoretical questions, with an emphasis on calculation and implementation of methods. If you are unable to take an exam, contact me as soon as possible to determine if a make up exam will be allowed.
5. All University regulations apply to this course. In particular, the policies concerning academic dishonesty, sexual harassment and withdrawal from a course apply. June 19 is the last day to withdraw.
6. If you carry a cell phone, please turn it off while you are in class. Each time your cell phone rings during class, you will lose 5 homework points.
7. See my webpage for a projected schedule of assignments.
8. To download a free copy of MATLAB, go to your My Akron page, click on Technology/Support at the top, then click on Software Downloads in the center of the page.

Tentative Syllabus

Any changes will be announced in class

Week	Sections on the outline to be covered
1	1A, 1B, 1C, 1D
2	2A, 2B, 2C, probably no class Thursday 22 June
3	2D, 3A, 3B, 3C, 3D
4	3D, 3E, 4A, 4B, review
5	Exam 1 (ch 1-3), 4C, 4D, 4E, 4F
6	4G, 4H, 4I, 5A, 5B, 5C, 5D, 5E
7	6A, 6B, 6C, 6D
8	6D, 6E, EXAM 2

‘On two occasions I have been asked, “Pray, Mr. Babbage, if you put into the machine wrong figures, will the right answers come out?” I am not able rightly to apprehend the kind of confusion of ideas that could provoke such a question.’

Charles Babbage