

MATH 4334.501, Fall 2005
TR 8:30-9:45 PM
ECSS 2.201

Instructor: Dr. Bentley Garrett
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Office hours: TR 7:30-8:30 PM

Text: *Numerical Methods Using MATLAB*, 4th Edition, Mathews and Fink

Topics covered in this course: Solution of linear equations, roots of nonlinear equations, interpolation and approximation, numerical differentiation and integration, solution of ordinary differential equations; computer arithmetic and error analysis.

Text sections covered (tentative only): 1.2-1.3, 2.1-2.4, 3.3-3.6, 4.1-4.4, 5.3, 6.1-6.2, 7.1-7.3, 9.1-9.5, 9.8-9.9

Grading:	Homework Average*	30%
	Exam 1	20%
	Exam 2	20%
	Final Exam	30%

(8:00pm, Thursday, December 1, 2005)

The Homework will consist of approximately 6 assignments (subject to change), each contributing 5% of the final grade. These assignments will consist of both theoretical and computational problems using an appropriate computer language. You will be notified of the due dates when the assignments are given.

Grade Scale:	A+	96.5-100	C+	76.5-79.4
	A	92.5-96.4	C	72.5-76.4
	A-	89.5-92.4	C-	69.5-72.4
	B+	86.5-89.4	D+	66.5-69.4
	B	82.5-86.4	D	62.5-66.4
	B-	79.5-82.4	D-	59.5-62.4
			F	below 59.5

Class policies:

- Exams must be taken in pencil.
- I will accept handwritten assignments as long as they are neat and well-organized.
- No make-up exams are given except under extraordinary circumstances.

- Of course, I am always looking for a solution – not the answer. In other words, I want to see all steps leading to the answer. Answers without any logical support will receive very little, if any, credit. Some of the computational assignments are open-ended. In other words, if you can provide extra analysis, or insight, in addition to addressing the questions that I ask you, it may help your grade. Of course, it must be *relevant* to the particular assignment.
- Attendance is not required, but it is essential that you attend all lectures to be successful in this class.
- All phones and pagers must be turned off during class.

Calculators: No graphing calculators are allowed. It will, however, be assumed that you do have a scientific calculator, and that you use it where appropriate for exams. If you don't have a scientific calculator, borrow one for the semester or buy one – they are inexpensive.

Additional help:

Disability Services: contact Kerry Tate at 972-883-2098.

**** Online resources:**

WebCT: <http://webct.utdallas.edu> You must enter your NETID username and password to logon to WebCT. Here, you will find the syllabus, problem sets, etc., as well as a record of your grades. Any messages/e-mails concerning the class will also appear on WebCT. This is also where you should contact me; just click the Mail link/icon, click Compose Message, click Browse, and select the top name (which is mine.)

To retrieve your NETID: go to <https://netid.utdallas.edu>, then click on the link that says “[Get your NetID and set your password](#)” to get your netid.

Important dates:	Exam1 – Thurs., Sept. 29
	Exam2 – Thurs., Nov. 10
	Final Exam – Thurs., Dec. 1, 8:00pm
	Last drop day without a W – Sept. 2
	Last drop day with a W only – Sept. 21
	WP/WF withdrawal period begins – Sept. 22
	Last drop day with WP/WF – Oct. 20

(Note: Exam dates are fixed, except under unusual circumstances.)