

CSC 445-M1 Numerical Analysis Winter Term, 2004

MEETS: MW 5:15-6:30 in E 234
TEXT: Burden & Faires: Numerical Methods, Third Edition; Thompson -
Brooks/Cole, 2003.
PREREQUISITES: CSC 171, MTH 402, MTH 142
INSTRUCTOR: J.M. Dwyer, E 206, (313)993-1061, dwyerjm@udmercy.edu
Hours: MW 4:30-5:00, TR 11:00-11:15 and 6:00-6:20
and by appointment.

Objectives of the course are:

1. to master basic topics in numerical evaluation of mathematical models, and
2. to gain experience in using numerically-oriented software.

Important dates include:

- Tests, homework due dates, and final examination as assigned in class or given in the tentative schedule below
- 1/30/04 Last day to drop this (or any) class with no record on transcript.
- 2/24/04 Midterm grades reported by instructor.
- 3/26/04 Last day to drop with a W.

Grading will be based on two tests worth 100 points each, four computer assignments worth 50 points each, and a final examination worth 100 points.

A tentative grading scale:

	B+	435-450	C+	385-400	D+	335-350
A		467-500	B		C	367-384
A-		451-466	B-		C-	351-366
					D	301-334
					F	0-300

Attendance is required for the first and last weeks of the term and for all scheduled tests and examinations. All students will be held responsible for what transpires in class including announcements as well as course content.

Make-up tests will be given only for documented excusable absences (that is absences beyond the control of the student).

Academic integrity will be expected from every student. For definitions and possible consequences of violating academic integrity, see the *E&S Student Handbook* and the *University of Detroit Mercy Catalog*. Essentially this means for students that work submitted as their own is in fact their own. When other work is included, such as reference, appropriate citations should be included. Work done jointly by students will have the names of all participants and, where appropriate, an indication of who is mainly responsible for what part of the submission.

Tentative Schedule

Topics may vary from the scheduled dates, but every reasonable effort will be made to hold the examinations as scheduled. In particular, some of the later chapters may be treated less intensely.

<u>Monday</u>	<u>Wednesday</u>
1/05 Intro., 1.1-1.5	1/07 2.1-2.3
1/12 2.4-2.7	1/14 3.1-3.3
1/19 MLK Day	1/21 3.4-3.7
1/26 4.1-4.4	1/28 4.5-4.7
2/02 Review	2/04 Test 1
2/09 4.9, 4.10, 5.1, 5.2	2/11 5.3-5.5
2/16 5.6-5.9	2/18 6.1-6.3
2/23 6.4-6.7	2/25 7.1-7.4
3/01 7.5-7.8	3/03 8.1-8.4
3/08 Spring Break	3/10 Spring Break
3/15 Review	2/17 Test 2
3/22 8.5-8.8	3/24 9.1-9.3
3/29 9.4-9.6	3/31 10.1-10.3
4/05 10.4-10.6	4/07 Chapter 11
4/12 Chapter 12	4/14 Review
4/19 Final Examination – This room 5:00-6:50 p.m.	