Kent Pearce

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Office Hours: MWF 10:00-12:00 or By Appointment

Math 3430

MWF 1:00 MA 009
MW 2:00 MA 009

Course Site: http://www.webct.ttu.edu/

Mathematics with MAPLE: Arithmetic Through Linear Algebra
By Gary A. Harris

Contents
Arithmetic with MAPLE, Algebra with MAPLE, Calculus with MAPLE, Linear Algebra with MAPLE.
Differential Equations with MAPLE (if time permits).

Philosophy
This is first and foremost a mathematics course. It will be driven by the mathematics content. We view
MAPLE as one example of a computer algebra system (CAS) and focus more on the general capabilities of a
CAS and how these relate to mathematics.

Objectives
The students will review and reinforce their understanding of mathematical concepts from arithmetic through
differential equations. Students will become familiar with the general capabilities of a CAS, and obtain
experience employing these capabilities to solve mathematical problems in the context of MAPLE. In order to
communicate with the program students obviously will have to use the appropriate syntax; however, learning
MAPLE syntax is never to be considered the main objective.

Support
WebCT Account: E-Raider Access
Lab 009 Account: m3430-XX
Roster/Accounts: http://www.math.ttu.edu/~pearce/courses/roster_3430.html
Maple Tutorial: http://www.math.ttu.edu/~pearce/maple_files/coursestart.html

Grading
HomeWork (15 assignments [worksheets], drop 2 lowest,) 100 pts
Examinations (3 mid-term examinations, no make-up examinations1) 300 pts
Final Exam (comprehensive, Friday, Dec 6, 1:30 pm - 4:00 pm) 200 pts
Total 600 pts

Grading Scale
A...100% - 90%  B...89% - 80%  C...79% - 70%  D...69% - 60%  F...59% - 0%

1 Except as amended under the Notices section.
**Critical Dates**

- Monday, October 7, 2002 - Last day to drop a course with an automatic W.
- Monday, October 21, 2002 - Mid-semester grades due.
- Tuesday, November 26, 2002 - Last day to drop a course with a W or WF.
- Wednesday, December 4, 2002 - Last day of classes.
- Friday, December 6, 2002 - Comprehensive Final Exam (1:30 - 4:00)

**Notices**

Any student who, because of a disabling condition, may require special arrangements in order to meet the course requirements should contact me as soon as possible so that necessary accommodations can be made.

A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the fifteenth day after the first day of the semester, the student has notified the instructor of each scheduled class that the student will be absent for a religious holy day.