

Kent Pearce

Math 3430

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

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

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

*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 examinations ¹)	300 pts
Final Exam	(comprehensive, Friday, Dec 6, 1:30 pm - 4:00 pm)	<u>200</u> 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.