

MATH4136: Math Software Applications Syllabus, Fall 2009

Professor: Dr. LieJune Shiau
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Class Time & Room: M,W 16:00 - 17:20; Bayou 3523
Office Hours: M,W 3:00-4:00PM and by appointment
Prerequisite: MATH3131 and MATH4131

Textbook: MATLAB guide, 2nd edition by D.J. Higham & N.J. Higham; published by SIAM

Contents:

A review of Mathematics theories through the eyes of Mathematical software applications leads to comprehensive understanding of this new paradigm for technical computing. Topics from Algebra, Analytic Geometry, Calculus, Linear Algebra, and Differential Equations will be used to seed the problem sets. In addition, procedural, list and function programming concepts will be emphasized

Objective:

This course will provide the students with a utility to use mathematical software as a symbolic, numerical, graphical computational aid for solving mathematics, science and engineering problems.

Outcomes:

Students are expected to be capable of utilizing mathematical software as a scientific problem solving tool upon completion of the course.

Tentative Schedule:

Exam I near 09/23/07
Exam II near 10/28/07
Exam III near 12/07/07

Grade:

homework 25%; each Exam 25%

Homework is posted in [http://math.uhcl.edu/shiau/Course/MATH4136\(2009\)/MATH4136.htm](http://math.uhcl.edu/shiau/Course/MATH4136(2009)/MATH4136.htm) with due dates. They are due every Wednesday, and are NOT accepted once being collected in the beginning of the class. All submitted homework should be stapled. One lowest assignment grade will be dropped in the end of semester. Once the graded assignments or exams are returned, students will be given ONE week to question the grading.

Honesty Code & Drop Rule:

Please review Academic Honesty policy in UHCL Catalog & 6 drop rule documents.

Disability Policy:

If you are certified as disabled and entitled to accommodation under the ADA, section 503, please notify the professor as soon as possible. If you are not currently certified and believe you may qualify, please contact UHCL Health and Disability Services office.