UF | Rick L. Smith
Department *of* Mathematics

MAD 4401

Last updated 1:08 pm December 17, 2014

MAD 4401

Section 4815

Time and Place

Section 1697
MWF 7th Period
Little 201

Text

No text, course notes will be posted on this site.

Policies

Prerequisites

MAS 4105 or MAS 3114 and a scientific programming language.

Grading

Three (3) exams
    Exam 1: 25 points
    Exam 2: 30 points
    Final: 35 points
Ten quizzes (10), drop two
    8 x 5 pts = 40 pts
Seven (7) projects
    7 x 10 pts = 70 pts
Total: 200 pts

With 2 drops there will be NO MAKE-UP quizzes.

A student is not permitted to do additional work to improve their grade.

Late projects will be penalized one point per day for each day after the due date.

Grading Scale

A 180 points
B 160 points
C 140 points
D 120 points

Attendance

Attendance is not required but strongly suggested. There is a definite correlation between students who do well in this class and attendance. The **University Attendance Policy** will be followed in this class.

Accommodation

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

Incomplete Grades

From the Undergraduate Catalog "An incomplete grade may be assigned at the discretion of the instructor as an interim grade for a course in which the student has completed a major portion of the course with a passing grade, been unable to complete course requirements before the end of the term because of extenuating circumstances, and obtained agreement from the instructor and arranged for resolution of the incomplete grade. Instructors are not required to assign incomplete grades."

The **incomplete policy** of the Mathematics Department and the College of Liberal Arts and Sciences is strictly enforced. Incomplete grades are given only in situations in which a student who has been in good standing all semester, is prevented from completing a course assignment (for example the last exam) due to circumstances beyond her/his control (for example, hospitalization, jury duty, death in the family, etc.)

Student Conduct

Students should be aware of the general expectations of UF students. Scholastic misconduct is broadly defined as "any act that violates the right of another student in academic work or that involves misrepresentation of your own work." The honor code is defined in **Student Honor Code and Student Conduct Code.** It includes but is not limited to cheating on assignments and examinations, and plagiarism.

Announcements

- Most here is correct

Dates to Remember

Jan 16 – Quiz 1
Jan 21 – Project 1 due
Jan 23 – Quiz 2
Jan 30 – Quiz 3
Feb 6 – Exam 1
??? – Project 2 due
Feb 13 – Quiz 4
??? – Project 3 due
Feb 20- Quiz 5
Mar 13 – Quiz 6
??? – Project 4 due
Mar 20 – Exam 2
Mar 27 – Quiz 7
??? – Project 5 due
Apr 3 – Quiz 8
Apr 10 – Quiz 9
??? – Project 6 due
Apr 17 – Quiz 10
Apr 20 – Project 7 due
TBA – Exam 3

Course Notes and Projects

These are PDF files which can be viewed in Acrobat.

Chapter 1 **Review of Linear Algebra and Introduction to MATLAB**

Chapter 2 Floating Point Arithmetic, Errors, and Flops

Chapter 3 Polynomials

Chapter 4 Numerical Linear Algebra

Chapter 5 Approximation

Projects

Projects submitted by email *must be in plain text or PDF*. I do not accept MSWord or MATLAB format.

Project 1
Introduction to MATLAB
Due ****
Email to **rs@ufl.edu**

Project 2
Errors and Flops
Due ****
Email to **rs@ufl.edu**

Project 3
Polynomials
Due ****
Email to **rs@ufl.edu**

Project 4
Least Squares and Numerical Linear Algebra
Due ****
Email to **rs@ufl.edu**

Project 5
More Numerical Linear Algebra
You will need this **image file** for this project.
Due ****
Email to **rs@ufl.edu**

Project 6
Splines and Fourier Approximation
Due ****
Email to **rs@ufl.edu**

Project 7
Ze Curv Bezier
Due ****
Late papers will not be accepted.
Email to **rs@ufl.edu**

MATLAB Links

The Official Matlab site
Matlab Programming Stuff
A MATLAB Tutorial (pdf)
A Graphics Reference (pdf)
Utah Matlab Introduction
A Practical Introduction to Matlab
Index of Matlab m-files

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