UF | Rick L. Smith
Department *of* Mathematics

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Local Sites
- College of Liberal Arts and Sciences
- Mathematics Courses
- Mathematics Major
- Smathers' Library
- UF Homepage
- UF Mathematics Department

News, etc
- Atlas Obscura
- CNN
- D1Baseball
- Engadget
- FactCheck.org
- Gizmodo
- Google News
- Grantland
- How Stuff Works
- Lifehacker
- Sports Illustrated
- Sports on Earth
- The Hardball Times
- Truth or Fiction
- Yahoo! Sports

Mathematics
- Math World
- Mathematics Awareness Month
- Museum of Mathematics
- The Ulam Quarterly
- xkcd

Information
- Bartleby
- Google Guide
- Google Maps
- Google Scholar
- Soople
- Wikipedia

Associations
- Association for Computing Machinery
- Association for Symbolic Logic
- Christian Study Center
- Creative Commons
- Desire Street Ministries
- International Justice Mission
- The Rutherford Institute
- UF Christian Faculty Fellowship

MAD 4401

Last updated 9:11 pm August 23, 2015

MAD 4401
Section 111F

Time and Place
MWF 5th Period
Little 217

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.

Open for business

Announcements

- Information here is probably accurate.

Dates to Remember

Sept 4 – Quiz 1
???? – Project 1 due
Sept 11 – Quiz 2
Sept 18 – Quiz 3
???? – Project 2 due
Sept 25 – Exam 1
Oct 9 – Quiz 4
???? – Project 3 due
Oct 16- Quiz 5
Oct 23 – Quiz 6
???? – Project 4 due
Oct 30 – Exam 2
Nov 6 – Quiz 7
???? – Project 5 due
Nov 13 – Quiz 8
Nov 20 – Quiz 9
????? – Project 6 due
Dec 4 – Quiz 10
???? – 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 11:59 pm ????
Email to **rs@ufl.edu**

Project 2
Errors and Flops

Project 3
Polynomials

Project 4
Least Squares and Numerical Linear Algebra

Project 5
More Numerical Linear Algebra

Project 6
Splines and Fourier Approximation

Project 7
Ze Curv Bezier

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

UF

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