Math 151A - 1: Applied Numerical Methods

Lecture: MWF 9-9:50am at MS 6229
Discussion: Tuesday 9-9:50am at MS 6229

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Class Webpage: http://www.math.ucla.edu/∼navasca

Prerequisites: Math 115A, and PIC 10A or knowledge of computers and programming

Textbook: Burden and Faires, *Numerical Analysis*, 8th ed., Brooks/Cole

Grading Scheme:

Theoretical Homework	20%
Computational Homework	10%
Midterm Exam	30%
Final Exam	40%

Assignment:

Theoretical homework problems will be assigned at the beginning of each lecture. They are posted on the class webpage as well. They are due every Wednesday **at the beginning of lecture**.

There will be 3 computational assignments. You will have two weeks to complete these projects. These projects will involve implementing algorithms. Please refer to the class webpage for guidelines on write-ups.

I encourage you to talk to your classmates to discuss materials in class and homework problems. However, I expect you to do your own individual write-ups and to program your own codes!

There will be no late homework accepted!

Computation:

You may code in your favorite language. However, I encourage you to take this opportunity to learn Matlab. Matlab is a great tool for doing numerical computation. It allows quick and easy coding in a very high-level language. It offers built-in math functions, toolboxes, high-quality graphics, and visualization facilities. Matlab is a language that is incredibly easy to master. I advise those students who have little or no computing background to use Matlab. But be ready to learn fast.

You will have access to PIC Lab located at BH 2817. A class account is created automatically once you are registered for this class. Activate your account in BH 2817 with your *bruin on-line username* and 9-digit ID number.

Exam Dates:

Midterm: Wednesday, 16th February, 9:00am-9:50am at MS 6229
Final: Friday, 18th March, 11:30am-2:30pm

Exam Policy:

If you miss a midterm exam without valid medical document from a physician or proper document for University-sanctioned reasons, you will receive a *0* on the exam.

The final exam must be taken in order to receive a passing grade. If you miss the final exam, you will automatically receive a grade of *F*, unless you have met conditions for an *I*-grade (incomplete) or have valid medical excuse.