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MAD 6407 Numerical Analysis (S21)

Time and Location

M W F Period 8 (3:00-3:50pm), *will be held online*

Syllabus <- (that's a link, click on it!)

Homework: Posted on **Canvas**.

Assignments should be turned in by Canvas, by 4pm the day they are due. **Typed** assignments may be turned in until 4am the following morning (12 hours after the standard deadline).

Either full or partial solutions will be posted.

Useful Links:

- [UF 2020-2021 Academic Calendar](#)
- [UF Spring 2021 Dates and Deadlines](#)

Sayas Numerics online seminar series

Seminar **home page** and **schedule**. Tuesdays at 3:30p.

All talks are recorded and past talks can be found on the **home page**

ENLA: Numerical Linear Algebra online seminar series

Seminar **home page** and **schedule**. Wednesdays at 10am.

All talks are recorded and past talks can be found on the **youtube** page

Useful References:

Linear Algebra:

- [Linear Algebra and its Applications](#). G. Strang

Numerical Linear Algebra:

- Matrix Computations. G. Golub and C. Van Loan.
- Accuracy and Stability of Numerical Algorithms. N. Higham.
- Matrix Analysis. R. Horn and C. Johnson.

Numerical Analysis and Scientific Computation:

- Numerical Mathematics. A. Quarteroni, R. Sacco and F. Saleri.
- Numerical Analysis. D. Kincaid and W. Cheney.

Getting started with Matlab:

- Official “Getting started with Matlab” guide (by Mathworks)
- A quick tutorial on Matlab, by Gowtham Bellala, U. Mich.
- Or, just do a search on “matlab tutorial,” and you will find many options.
- This is not a programming class, but I expect you to understand and use basic control structures such as **for**, **while** and **if** statements, to assign and access variables within arrays, and to define and call functions. Sample code will be provided.

Libraries of Test Matrices

- Description of matrices generated by Matlab’s [gallery](#) function
- Sparse matrices collection by Tim Davis

