Lab Guidelines
MATH2070: Numerical Methods in Scientific Computing I

Location: http://people.sc.fsu.edu/∼jburkardt/classes/math2070_2019/lab_guidelines/lab_guidelines.pdf

A minute to program, a second to run, an hour to debug!

> **Lab guidelines**
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> *The lab for Math 2070 is not intended to teach MATLAB programming; it is to familiarize you with computational implementations of numerical algorithms. Here is how we hope to go about that.*

The computer laboratory section for Math 2070, Fall 2019, meets in room WWPH 1200A, from 4:20 to 5:35 on Mondays and Wednesdays.

Your lab instructor will be John Burkardt, `JVB25@pitt.edu`, with an office at 620 Thackeray, and office hours 10:00-11:00 on Tuesday and Thursday.

The intent of the laboratory work is to give you some practical experience with the algorithms that have been presented in the lectures.

The labs are meant to cover some of the same material presented in the lectures, although some topics may be skipped, and a few new things inserted. We will try to handle topics in roughly the order they occur in the lectures.

Regular attendance at the lab classes is strongly encouraged. Lab exercises are meant to be about enough work to complete in the lab hour, although you are free to complete them at home. A report on the previous week's labs should be submitted via email to me (JVB25@pitt.edu) before the beginning of each Monday lab class.

A grade for the lab exercises will be assigned, and will form a portion of the overall grade for the class.

The language used in class will be MATLAB, which is installed on all the lab computers. You may want to get a copy of MATLAB from the University to install on your own machine, so you can also do work at home. There is also a free program called **octave**, which uses the same command language as MATLAB, although it does not have the full set of MATLAB tools. If you prefer to use another language, talk to me first so we can see whether this can be arranged.

Notes and data files for a given lab exercise may be posted by class time at

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1   http://people.sc.fsu.edu/˜jburkardt/classes/math2070_2019/math2070_2019.html
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