## Mathematics MTH229: Computer lab for Calculus

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Office Hours: M 1:15 - 2:20; W 11:00 - 12:10
Required Text: Online notes available at http://mth229.github.io
Meeting Time and places: MW: 12:20 - 1:10, 1S-108

**Expectations:** This class covers how to use the computer to solve problems in first-semester calculus.

We will use the 'Julia' software. This software is open source and can be downloaded and used for free. It is installed in 1S-108 and the open lab in 1S-212.

**Projects:** The class is organized around 11 projects that will introduce using the 'julia' language to solve problems in calculus. These projects are available online at http://mth229.github.io. There are self-grading questions to test yourself as you read the projects. For each project, a separate assignment will be given. You will turn in your answers to these for a portion of your grade (50%).

The other part of your grade will come from 2 in-class exams and a final exam. Each is worth 1/6th of your grade. Each is one class period. You must have a passing average on the in-class exams to pass this course.

**Computer Software:** The julia software can be run through the IJulia interface. This is provided in the labs. Starting the software requires two steps: **first** open the chrome web browser (IE does not work), **then** click the 'julia' icon. This will open a browser tab that has a "notebook" interface for interacting with 'julia'.

Julia is a very new programming language, being actively developed by many people, with a large group from MIT leading the way. Over time, it hopes to be a viable alternative to MATLAB, a programming language used by other sections of this course. As of now, it is more than adequate for our purposes.

**Exam Policy:** I expect full attendance at all the exams. There will be no make-up exams as a general rule. No accommodations for a missed final exam will be made.

**Exam Dates:** Our tentative dates for the mid-term exams are The mid-term exams will be March 3rd and April 7th. The final exam is *likely* to be May 19th, but may be May 21st. You will be notified of the exact date during the semester.

Academic Honesty: The CUNY academic integrity policies are available from the website http://www.math.csi.cuny.edu/verzani/classes/CUNYapr.pdf. Cheating on exams will not be tolerated. Although I encourage you to work together – if desired – on any assignment for the in-class portion of your grade, this does not mean you can copy another person's work.