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

There is no class on: 2/15 (President's day); 3/23 (classes follow a Friday schedule) 4/25 and 4/27 (Spring break). The final exam *should* be 5/23.

About: MTH 229 is a lab supplement to a calculus course, with the aim of covering how to use the computer to solve problems in first-semester calculus.

In this section, we will use the 'Julia' software. This software is open source and can be downloaded and used for free. For details see www.julialang.org. It is installed in 1S-108 and the open lab in 1S-212.

Projects: The class is organized around 10 projects that will introduce using the Julia language to solve problems in calculus. These projects are available online at http://mth229.github.io. The projects give background material. They contain 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%). We will use online software to submit answers. You will receive a username and password for this.

The other part of your grade will come from 2 in-class exams and a final exam. Each exam is worth 1/6th of your grade. Each is one class period. You must have a passing average on the exams to pass this course, 60% or more of the points.

The last day to drop a math course is April 11th. This will be before the second exam is given.

Computer Software: The julia software can be run through the IJulia interface. This is provided in the labs and is also available through a web service www.juliabox.org. In the lab you can start Julia with a nice interface through:

- Logging on to the computer and clicking the Julia icon
- Running the command include("go.jl"). This is done by typing the up-arrow once and the enter key.

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 is 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.

Exam Dates: Our tentative dates for the mid-term exams are The mid-term exams will be 3/7 (project 1-4), 4/13 (projects 5-7), and 5/23 (projects 8-10) (tentatively).

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.