

Mathematics MTH229: Computer lab for Calculus

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Office Hours: MW 1:00 - 2:15

Required Text: Online notes available at <http://mth229.github.io>

Meeting Time and places: M: 10:10-12:05, 1S-108

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. It is installed in 1S-108. It is also free to use through mybinder.org or www.juliabox.com. See julia.org for details on getting the software, if interested.

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 have some background material available at the same site. This background material contains 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.

You can logon at <http://www.math.csi.cuny.edu>.

The other part of your grade will come from 2 in-class exams and a final exam. In total, the exams are worth 50% of your grade. Each is one class period. **For this class, you must have a passing average on the exams to pass this course. That is, you must earn 60% or more of the available exam points.**

The last day to withdraw from this class is November 5, 2019. This is before the second exam.

Computer Software: The julia software can be run through the IJulia interface.

Details can be found online at:

<http://www.math.csi.cuny.edu/verzani/Classes/MTH229/>

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 10/7, 11/18, and during final’s week.

Logins: You will need several computer logins for this class:

1. You need to be able to log on to the school’s computers or the school’s wifi. This requires a SLAS account.

2. You will turn in your projects through a math department website. You will receive a password for that the first day of class.
3. You *may* wish to use `juliabox.com` to run Julia. This requires a Google account.

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.

During exams, all cell phones must be put away. If a phone is seen during an exam, your exam will be taken immediately and assigned a grade of 0.