

## Mathematics MTH229: Computer lab for Calculus

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**Office Hours:** M 1:15 - 2:20; W 2:30 - 3:20

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

**Meeting Time and places:** M: 2:30 -4:25, 1S-108

There is no class on September 5th. This class will be held on October 6th, a Thursday.

**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 and the open lab in 1S-212. It is also free to use through [www.juliabox.com](http://www.juliabox.com). See [julia.org](http://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 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.

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. That is, you must earn 60% or more of the points.**

The last day to drop a math course is November 10th. This will be before the second exam is given.

**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 10/17 (project 1-4), 11/20 (projects 5-7), and 12/19 (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.