# Math 105L: Lab Calculus and Functions I

**Class Times:** Lab Time:

**Instructor:** Email:

**Office Hours:** Help Room Hours:

**Links:**
- Main page: [https://math.duke.edu/~rann/105lmaterials/](https://math.duke.edu/~rann/105lmaterials/)
- Sakai: [https://sakai.duke.edu/portal/site/105LFall19](https://sakai.duke.edu/portal/site/105LFall19)
- First year information: [http://www.math.duke.edu/first_year/](http://www.math.duke.edu/first_year/)

**Texts:** *Calculus*, sixth edition, by Hughes-Hallett, et al.

**Calculator:** Calculators will be useful for homework and occasionally for class and lab. Calculators will not be allowed on tests or on the final exam. It is important to use your calculator as a support tool, not as a crutch. For example, you are expected to be able to do basic arithmetic and know the shapes of graphs of functions.

**Laptops:** We will use laptops in most labs. Please bring one. If you do not have a laptop, please let your teacher know as soon as possible, preferably on the first day of class. While using a laptop for class, you absolutely may not be browsing social media, or using it for any purpose other than lab work.

**In-Class Worksheets:** Worksheets will be posted at the link given under ‘Main Page’ at the top of this page. You should bookmark that page. Your teacher will let you know if they expect you to print out your own worksheets or if worksheets will be printed for you. Worksheets for the a day’s class will be posted in the evening before that class. Completing the worksheet, on your own or with assistance, is part of each day’s homework. All material from worksheets may be tested on exams, quizzes, and the final.

**Labs:** Labs are an absolutely essential part of this course. Labs do not merely go over class material, but also introduce new concepts and deepen understanding. Following each lab, you will either have a quiz or be required to hand in a report on your work. The lab work and the associated reports will be done in teams. When a team’s work is submitted, the names of all group members must appear on the paper. If one member did not fully participate, then that person’s name must be omitted; a second report from the missing partner will not be accepted at a later date without a dean’s excuse.

**Homework (approx. 5% of final grade):** Homework is an absolutely essential part of this class. If you do not do the homework, you will not do well in Math 105L. ALL homework problems on the syllabus should be completed before the next class period. The answers to the homework from the textbook, are available on the Sakai course site (see Sakai below), under Resources -> Documents -> Solutions Manual. Answers to extra homework problems may or may not be provided. If you need them, please ask in help room, class, or office hours.

Your teacher will inform you how homework will be assessed. Some teachers will choose to give homework quizzes.

**Academic Honesty:** If a student is found responsible for academic dishonesty on a graded item in this course, the student will receive a score of zero for that assignment.
Lab Reports and Quizzes (approx. 30% of final grade): There will be approximately five lab quizzes and four lab reports.

Tests (approx. 40% of final grade): There will be two major (in-lab) tests and two smaller (in-class) tests. Tests will cover all labs and classes after the previous test, but will require knowledge of previous material covered. Note that all tests cover both class and lab material!

Final (approx. 25% of your final grade): The final examination will cover all course material, including labs. All sections of 105L take the same final.

The final will be Monday, 16th December, 9am-noon. Keep this date in mind when making travel plans.

Class Behavior: You don’t get graded on this, but please do it anyway. This involves: Being on time, paying attention, turning off cell phones, things like that. Annoying the person in charge of your grades by having your cell phone ring is rarely a good idea.

Attendance (0 points): Attendance in mathematics classes is vital for success! Attendance in class will not be recorded; however, missing class will doubtlessly harm your grade. Absences from tests will be excused only for reasons such as serious illness or official university activities.

To obtain an excuse you must complete the official short-term illness notification form. If an absence from an exam is excused, your teacher will decide whether to give a makeup test or otherwise make up the grade. Unexcused absences will result in a score of zero on any pertinent assignments.

Study Habits (4.1 gazillion points): Working out of class is essential to earning the grade you want. You should do every problem from the homework. If you don’t get the correct answers, keep working. You should regularly, as often as daily, review your notes from recent classes. You should attend help room. If you need help managing your time or study efforts, let me know. The university has resources to help you with these difficulties.

Help Room: The Math Department operates two help rooms for calculus courses: Gross 352 1-5pm M-Th, and Classroom Building 132 M-Th 3-10pm and Su 4-10pm. These are the most important resource for this class outside class itself and the labs. They should be your primary source for assistance. The rooms are staffed by teachers and lab instructors. No appointment is required. You should come as often as you need to (and probably more often). Help room is a great place to do homework, as you can ask questions when you get stuck. Any staff in the Help Room should be able to assist you. A detailed schedule is available at: https://math.duke.edu/help-room

Tutoring: Trinity College provides free individual tutoring through the Peer Tutoring Program, located on the second floor of the Academic Advising Center. You may also get a private tutor at your own expense through the math department. If you’re interested in hiring a private tutor, ask me and I’ll be happy to recommend one for you.

Sakai: There is a Sakai site for this class — one for all 105L sections being taught this semester. Midterm tests given in all sections of 105L will be posted on the Sakai site for all 105L sections after they are given. When you access Sakai the site for all sections will be listed as MATH.105L.001.F19.