

Important Information for all Math 122L Students Fall 2015

Math 122L is designed for first year students who have had AP Calculus credit for Calculus I but are not yet ready for Calculus III. In addition to Calculus II material, it covers topics that are typically omitted or poorly explored in high school Calculus I courses. The course emphasizes series, and covers the definition of the integral, integration techniques, and basic differential equations. Math 122L is meant to develop both an understanding of the formal structure of calculus and an understanding of how calculus is used in applications. Math 122L will meet 4 times per week – two 50 minute classes and two 75 minute classes. One of those classes will be a lab session where problems are studied in depth. These problems may be applications taken from the physical, social and biological sciences or topics from the mathematical theory of calculus. Computers are used extensively in this course.

The following general policies are for all Math 122L students. Your instructor will also give you a description of his or her particular policies. Please read all of the policies carefully.

Course Textbook: Single Variable Calculus: Concepts and Context, (4th edition) by Stewart

Homework: The common set of homework exercises for all Math 122L sections can be found at http://www.math.duke.edu/first_year/courses/411.html. Your instructor will inform you about whether he or she intends to collect homework and, if so, how often and when. Along with being an active participant in class, doing your homework in a timely and thoughtful way is the most important thing you can do to improve your chances of success in a math class. A solution manual for exercises from the textbook will be available in the Math help room in Carr 132 (see below for more about the help room).

Tests: There will be three tests (see course syllabus for the dates) and a final exam (see below for more information), as well as a gateway test on integration skills (see below).

Final exam: The final exam is a block exam; that means all 122L students will take the same exam at the same time. It will be given on Sunday, December 13 from 7 PM to 10 PM. The final exam will be graded by all instructors teaching that course, and will be cumulative and challenging. You will be allowed to bring one 8 1/2 X 11, two-sided page of notes to the final. The very process of making your page of notes is a good way to start reviewing for the final exam.

Gateway Test: There will be a "Gateway" test in Math 122L; you must pass the gateway to get a grade for the course (if you fail to pass it by the time of the final exam you will receive an "I", an Incomplete, as a grade). The Math 122L gateway will test your ability to compute basic anti-derivatives and will be given midway through the semester; to pass you must get 7 of 8 questions completely correct. If you fail the gateway test, it is your responsibility to retake it during either a planned gateway make-up session, or in the help

room from a 122L instructor or T.A. with whom you have made prior arrangements to do so. There is a copy of a practice gateway test in your coursepack.

Labs: The lab is an essential part of the course. The in-class tests and the final exam will include questions related to the labs. Some of the labs may also have quizzes.

Technology: In lieu of a graphing calculator, this course uses Maple. Duke University has a site license for Maple; students can purchase a site license for \$35 from OIT. To purchase the software, go to (<http://oit.duke.edu/software>) and click "Submit" to get a listing of all software offered by OIT. Scroll to and click on Maple (Student Version) and then click "Get Software". Once you have successfully purchased the software, you will be redirected to a page containing the download and purchase key. Note that you will need to enter this key at some point during the downloading process. If you need to access the key at any point, you can find it by visiting the main OIT site and clicking "View software you have purchased". This license will not expire so you can use the software for as long as you like. If you have trouble downloading the software call Duke's Office of Information Technology's help desk at 919-684-2200.

Help Room: The math department help room, located in 132 Carr Building, is open 1:00 pm - 10:00 pm Monday - Thursday and 6:00 pm- 10:00 pm Sunday. The dates of operation and other information about the math room can be found by clicking on the link to the help room on http://www.math.duke.edu/first_year/ . This is an excellent resource for getting answers to your questions about the homework and other questions you may have about the course content. A solution manual for exercises from the textbook will be available in the help room.

Other Help: See http://www.math.duke.edu/first_year/help.html

Duke Community Standard: There is a clear statement of the new Duke Community Standard at <http://www.integrity.duke.edu/new.html> . Upon completion of each academic assignment, students will be expected to reaffirm their commitment to the Duke Community Standard by signing this statement: I have adhered to the Duke Community Standard in completing this assignment. Note that the Standard asserts that "Students share with faculty and staff the responsibility for promoting a climate of integrity" and that students are expected not to accept the actions of those who violate the standards of academic integrity.