Course Overview. Math 122 is a continuation of Math 121. Topics covered will include techniques and applications of integration, the calculus of exponential, logarithmic, and trigonometric functions, and sequences and series, including Taylor series. We will cover section 4.5 and most of chapters 5 through 8.

Text and Materials. The textbook that you will need for this course is Essential Calculus, by James Stewart (Second Edition), published by Brooks/Cole. You will not need a graphing calculator. You will need to purchase a clicker for use in class. These are available in the bookstore for $50. Bring your clicker to class each day.

Prerequisites. This course requires Math 121 or Math 118 or a year long high school calculus class. In particular, knowledge of limits and differential calculus (derivatives) is assumed. Students who received a score of 4 or better on the BC calculus exam should consider taking Math 222 or Math 223 instead of Math 122. If you are unsure which course you should be in, please come and see me.

Course Format. The course meets MWF, for 50 minutes each day. Class will begin with a brief Q & A forum where I will attempt to clear up any confusion you may have. Please take advantage of this and come with questions prepared. We’re all in this together and don’t want to leave anyone behind. After the Q & A we’ll have an instruction period that may include lecture, clicker questions, and/or time for small group work. Working on problems in class will give you a chance to identify things which may cause confusion on the homework and ask for clarification while we are all in the same room. There will be office hours available, and this can also serve as a place to work on problems in groups.

Communication. It cannot be stressed enough how essential communication is to succeeding in this course. After identifying topics that may be giving you trouble, please communicate this information to me. There’s no such thing as a bad or unwelcome question. Additionally, please communicate with each other. Collaboration can be essential to keep up with the material. Explaining concepts and examples to each other is a great way to learn. It is my goal to create a comfortable environment which is conducive for learning.

The Math Workshop. The Math Workshop is located in the Science Library in the main floor conference room. It is open most afternoons and evenings. There are always two staff members on duty, who may be either experienced undergraduates or math graduate students. This is a drop-in tutoring service, available to all members of the Wesleyan community. Staff members provide a friendly, relaxed atmosphere while answering questions about mathematics. The workshop is a good place to go when you get stuck on your math homework.
Your Final Grade. Your final grade in this course will be calculated according to the following:

- Homework: 30%
- Midterms (2): 40%
- Final Exam: 30% (Scheduled for 9am-12pm on Wednesday, Dec 16th)

Homework. In math courses in general, and calculus in particular, each course meeting will build on all the previous meetings. Thus, homework will be assigned often. As we cover sections from the textbook, you will be responsible for this reading as well. The best method for reading a math textbook is to skim the section before class and try to understand which concepts might be difficult for you and why. This will help you have questions in mind when you arrive in class and will help you get the most out of class. After class, do an in-depth reading of the section and complete the homework problems, then skim for the next day. You should expect to spend about 1-3 hours on each homework. Exercise numbers will be posted on the course moodle.

Collaboration on homework is strongly encouraged, but you should write up your own homework yourself, and it should be well written and readable. A list of “Answers” without supporting documentation is normally unacceptable. In other words, show your work. This will be good practice for writing solutions on the midterms and final exam. I am happy to answer questions in my office hours, and I encourage you to come if you are confused about anything. You will get the most out of this time if you attempt the homework first and come with questions already prepared. NO LATE HOMEWORK WILL BE ACCEPTED.

Midterms. There will be two 2-hour midterm exams, tentatively scheduled for Wednesday, Oct 14th from 7pm till 9pm and Wednesday, Nov 18th from 7pm till 9pm. Understanding the homework problems and class lectures is the best form of preparation.

Final. There will be a comprehensive 3-hour final exam on Wednesday, Dec 16th from 9am till 12pm. Understanding the homework problems, class lectures, and midterm exams is the best form of preparation.

Honor Code. Wesleyan has an honor code that all members of the community, both faculty and staff, are expected to uphold:

www.wesleyan.edu/studentaffairs/studenthandbook/standardsregulations/studentconduct.html

I expect that we will all abide by the honor code in this course. Collaboration on homework is permitted, but please do not use resources outside of me, your fellow students, and the textbook. Answers to odd-numbered problems are in the back of the book, but do not provide enough shown work to receive full credit. Collaboration on midterms and the final exam is not permitted.

Course Accommodations. It is the policy of Wesleyan University to provide reasonable accommodations to students with documented disabilities. If this applies to you please make an appointment with me as soon as possible so that appropriate accommodations can be made. You will also need to register with Disabilities Services.