

**Text:** *Calculus, Early Transcendental Functions (4<sup>th</sup> Edition)*, by Larson, Hostetler, and Edwards.

**Instructor:** Jonathan Hulgan

**Office:** TBA

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**Class Page:** TBA

**Office Hours:** Tuesdays 2pm-5pm. I am also available most mornings by appointment.

**Class Objectives:** Students will learn numerical and formal techniques of integration, applications of integration to various problems, the use of series in mathematics, and techniques of solving first-order and linear differential equations.

### Grading Rubric:

Homework:	200
Tests:	300
<u>Final:</u>	<u>200</u>
Total:	700

Course grades will be assigned based on point percentages in the following ranges:

94-100: A	90-93: A-	87-89: B+	83-86: B	80-82: B-	77-79: C+
73-76: C	70-72: C-	67-69: D+	60-66: D	0-59: F	

**Attendance:** You must attend class. The pace of this class will be very quick; it will be very easy to get very lost very quickly if you miss even a single class. If you must miss class for any reason, I would suggest meeting with me during office hours so that we may go over the material that you will miss; be aware that I am less willing to do this for frequent absences. Additionally, I will be keeping a record of students who are present and prepared for class at the official starting time (11 on Tuesdays, 12 on other days). Students who frequently find themselves on this list will be considered favorably when borderline grades are an issue.

**Materials:** In addition to your text, make sure that you have pencils (no pens, please), and quadrille paper (for graphs, as needed). A subscription to WebAssign (see below) will be needed to complete homework assignments. A graphing calculator will prove to be useful at points, but is not required for most assignments and will not be

permitted on tests or the final. Any submitted assignments that span multiple pages should be stapled or clipped together.

**Electronics:** Electronic devices that are conducive to learning the material at hand are normally permitted in class as long as they are not distracting to other students or to me. I ask that you silence all cell phones before coming into class and refrain from texting in class; if you must take an important call, please quietly excuse yourself, but do not make a habit of this. During tests, the use of all electronic devices (including calculators and cell phones) is forbidden; all devices must be turned off and stored away the entire length of the examination. The use of unauthorized devices during a test constitutes a violation of the Honor Code and I will refer the case to the Honor Council.

**Expectations:** I will expect you to come to each class having reviewed the material from the previous class and prepared for the new material to be covered that day; this includes reading the sections in the textbook noted on the calendar for each class. In class, I ask that your behavior not be distracting to me or to your classmates; in particular, please ask me rather than your neighbor if you have a question. Also, I will adhere to the college's Honor Code. This is a very real and very important part of the Rhodes community; if you do not wish to waste your time and money this semester, please do not attempt to cheat or otherwise seek personal gain by dishonest means. If you have questions about what this includes, I will be more than happy to discuss any hypothetical situations that come to mind.

**Internet:** I will provide some additional resources for the class online; this may include class notes, practice problems, and solutions to assignments and tests. These materials will be made available at the class webpage listed above. It is your responsibility to access and utilize these resources. Please also note that these resources are intended to supplement class-time, not replace it. You may find it helpful to print these out for class, but please be judicious in your paper use. If you find an online resource that you think might be helpful for the rest of the class or there is a particular resource you would like for me to add, please feel free to email me with the necessary information. I will occasionally contact the class via email and will use your official Rhodes address; please check this address regularly.

**WebAssign:** WebAssign is a supplementary resource to your textbook. It can be accessed at: <http://webassign.net>. There is an additional cost for this service; I generally dislike asking students to pay even more for a class, but in this case I feel the benefit justifies the cost. Please let me know if this presents a genuine hardship. Only the online submission portion of the service is mandatory; you may find that the online version of the text is useful as well, but won't be required. More information

concerning how to login to the service will be provided in the near future.

**Office Hours:** Please do not hesitate to ask me questions in or out of class. In this class it is much better to admit you don't understand something rather than pretend you do and wind up getting hopelessly lost over the course of the next several classes (I found this out from personal experience). The best time to catch me outside of class will be on Tuesdays, but I can try to arrange to be around some other time if this doesn't fit your schedule. I am more than happy to explain concepts once again, work out extra examples, look over extra work that you've done, or discuss related topics that you find interesting but won't be covered in class. I most likely won't completely work out the homework problems for you, but I will certainly help get you started or unstuck.

**Math Support:** If I am just entirely too intimidating (or even if you're a frequent visitor), please remember to use the Math Support Center (MSC) on the second floor of Ohlendorf. Your peers staff this center and are tremendously helpful resources. They are often able to explain things in a way that makes more sense to you than I can. Again, please don't expect them to completely work out the assigned homework problems (I'll ensure they know which ones they are), but they will definitely help you with what they can.

**Homework:** A professor once told me that the path of mathematical learning runs from the hand to the brain. Working problems on your own is a vital part of this and any math class. There will be a total of 10 mandatory assignments on WebAssign each worth 20 points. This system only examines the final answer to each problem; be aware that on tests I will more closely examine your work than just your final answer. For this reason, you should keep a written copy of each problem worked out to supplement your electronically submitted answers; I will occasionally ask you to submit these written copies as well. You are more than welcome to work on homework assignments in groups; in fact, I strongly encourage you to form such study groups with your fellow students. However, be aware that both your electronic answers and written solutions should reflect your personal understanding of the problem; blindly copying someone's work benefits nobody and constitutes a violation of the Honor Code. In addition to the problems assigned online, I strongly encourage you to work on additional problems from the text. I will provide a list of problems that I believe are most beneficial to work, but in general most odd-numbered problems in the sections we cover are good to look at.

**Tests:** There will be three tests, each lasting eighty minutes and worth 100 points. It is vital that you show all of your work in a clear and sensible fashion for these tests; as mentioned before, I am more interested in seeing your work than just your final

answer. Most problems will require you to either show your work or give some sort of justification for your answer; answers that do not show this will receive no credit. Tests are scheduled for the following Tuesdays: September 22, October 27, November 24. If you are unable to take the test during the standard Tuesday class time (11:00 – 12:20) due to a schedule conflict, you may make advanced arrangements to take the test at some other point in the day. In the event of a scheduling conflict where you will be unavailable the whole day, I may allow you to take the test before the original date with advance notice. Tests may be taken after the original date only in the event of an emergency and with written proof of such. There will be no make-up tests or re-tests. Remember that calculators are not permitted on tests. I generally do not curve tests.

**Final:**

Our final will occur on Tuesday, December 15 at 1pm. This will be a cumulative test, approximately twice as long as a normal test, worth 200 points. Calculators are not permitted, but I usually allow you to bring a single 3x5 note card to use on the test.