

**Math 121-01**  
**Calculus I**  
**CRN# 23417**  
**MWF 9:00—9:50am, Kennedy 207**  
**R 8:30—9:20am, Ohlendorff 225**

Instructor: Christopher Seaton  
Office: 320 Ohlendorff Hall  
Office Hours: MWF 10:00—10:50am  
R 9:30—10:20am, 2:00 to 2:50pm *or by appointment*

Please note that my office hours are subject to change in the first few weeks of the semester as other scheduling concerns are worked out. Changes will be announced in class and posted on my office door and web page.

Phone: x3721  
E-mail: [seatonc@rhodes.edu](mailto:seatonc@rhodes.edu)  
Web: <http://faculty.rhodes.edu/seaton/>  
Text: Stewart: Single Variable Calculus, Early Transcendentals, 7e  
**or** Stewart: Calculus, Early Transcendentals, 7e

**Course Description:**

Calculus provides powerful tools for modeling real-world problems. This course will provide a thorough introduction to differential calculus and an introduction to integral calculus. You will learn both to apply calculus and how the material itself is developed. While being able to perform computations and solve problems will be essential, you will also learn to construct arguments and proofs to justify the theorems and their consequences.

This course is distinct from Math 115, Applied Calculus. However, due to the overlap in content, students may not earn credit for both Math 115 and Math 121. Information in which course is appropriate for whom may be found at <http://rhodes.edu/mathcs/21458.asp>. Students that are not sure if they have chosen the correct course should consult with me as soon as possible.

**Content:**

We will review Chapter 1 quickly and cover Chapters 2—5 in the text with some sections excluded.

**Prerequisites:**

The prerequisite for this course is a precalculus course that includes trigonometry and analytic geometry. The material in Chapter 1 and Appendices A—D of the text provides an overview of some of the material with which you should be familiar.

**Office Hours:**

Students are **strongly** encouraged to take advantage of my office hours and make appointments at other times. My weekly schedule is posted on my web page as well as on my office door. Please consult this schedule before suggesting an appointment time (particularly via e-mail with short notice).

### Skype:

When I am not in my office but am working somewhere else, I am frequently logged into Skype and listed as available. Students are welcome to add me as a contact on Skype during the semester in order to ask questions about the material at these times. Skype is free and easy to install, so please to contact me if you have any questions about setting it up.

### Web-Page:

This syllabus is available on my web-page (URL above). I will post a summary of homework assignments there as well. In addition, I will occasionally use files in class which will be made available in my public folder on the Rhodes academic fileserver or on Moodle. I will announce anything I post in class, but students are encouraged to consult my web page and public folder on the fileserver, particularly if they have missed a class.

The homework summary is for your reference when preparing for class or studying for an exam. It is subject to change until the assignments have been given in class.

### Attendance Policy:

I will take attendance. You are permitted **three** unexcused absences throughout the semester; if you are absent three or fewer times, you will receive a bonus on the final exam. An excused absence must be discussed with me **in advance if possible**, and the proper documentation must be made available where appropriate. If I decide that excessive absences are jeopardizing your ability to pass the course, I will take action as outlined in the catalogue. It is your responsibility to obtain notes and assignments when you are absent.

### Grading:

Your letter grade for the course will be based on the following scale:

A	[93, 100]	B-	[80, 83)	D+	[67, 70)
A-	[90, 93)	C+	[77, 80)	D	[63, 67)
B+	[87, 90)	C	[73, 77)	D-	[60, 63)
B	[83, 87)	C-	[70, 73)	F	[0, 60)

This scale is “worst case scenario”; I may choose to uniformly reduce the numerical requirements for a grade, but will not increase them.

The total percentage will be computed as follows:

Homework:	15%
Quizzes:	10%
Writing Projects:	10%
Tests:	3 × 15%
Final Exam:	20%

### **Homework:**

On Mondays, Wednesdays, and Fridays, I will assign both practice problems for you to test your comprehension and homework problems to be handed in. Much of what you learn in this course will be the result of working exercises from the text. These are designed to reinforce key concepts, so keeping up with and doing the assignments is essential to success. The amount of time needed to do homework may vary considerably from assignment to assignment and from student to student. It is not unreasonable to spend **two or three hours** on many of these assignments, so it is incumbent upon you to allocate time in your schedule for the purpose of doing mathematics homework.

Homework will be due **in** class on Fridays with modifications for holidays to be announced. The homework you hand in must be your own work; you may work on the problems with other students, but they **may not aide in the write-up**.

Late homework will only be accepted with my approval and will be penalized 50%.

### **Quizzes:**

On Thursdays, a short quiz will be given at the beginning of class. The quiz will ask you to work a few problems that are identical or similar to those in the recently assigned practice problems. The quiz will be open-note but **not** open-book.

### **Writing Projects:**

I will assign two or three writing projects over the course of the semester that consist of applications of the material that are more involved than is possible in a homework assignment. You will work on these projects in groups of two or three students. These projects must be typed and will be graded both on content and exposition.

### **Tests:**

There will be three tests during the semester. They will be given **in Ohlendorff 225 from 7:00pm to 8:30pm on Wednesday, February 6<sup>th</sup>, Wednesday, March 6<sup>th</sup>, and Wednesday, April 17<sup>th</sup>**. If you need to reschedule a test, you **must** make arrangements with me as early as possible **before** the day of the test, and you will be expected to document your absence. Otherwise, you will not be allowed to make up the test. **In most circumstances, I will not make arrangements for you to make up a test unless I have been notified one week before the day of the exam.**

All tests will be closed-book and closed-notes.

### **Final Exam:**

The final exam is scheduled on Tuesday, April 30<sup>th</sup> at 1:00 pm. It will be a closed-book, closed-notes, cumulative exam. Students who have reason to reschedule the final exam must make arrangements with me **before** the last week of classes.

### **Calculators and Other Computing Devices:**

Calculators will not be allowed on the tests. You may use calculators on your homework, but you must still show sufficient work for me to follow your steps in order to receive full credit.

**Math Support Center:**

The Math Support Center is a resource for students located on the third floor of Ohlendorf. Tutors will be assigned to this class and will hold regular drop-in tutoring hours, *tentatively* scheduled for Sunday through Thursday, 7—10 pm. You are welcome to come by during these times for additional assistance on practice problems or other questions about the material. More information will be announced in class as soon as it becomes available.

**Honor Code:**

All students are expected to conduct themselves within the guidelines of the College's Honor Code. Please ask me if you have any questions about what is allowed. I reserve the right to reduce a student's grade in the event of plagiarism whose intent cannot be verified.

**Students with Disabilities:**

If you have or think you may have a documented disability, please contact me and the Office of Student Disability Services as early in the semester as possible.