Math 121–02  
Calculus I  
MWF 9:00am to 9:50am  
Ohlendorf Hall 225  
T 9:30am to 10:20am  
Kennedy Hall 205

Instructor: Dr. Christopher Seaton  
Office: 318 Ohlendorf Hall  
Office Hours: MWF 1:00pm to 2:30pm, T 12:15pm to 1:15pm or by appointment  
Phone: x3721  
E-mail: seatonec@rhodes.edu  
Text: Barr and Neuhauser, Calculus.

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, in two ways: first, trigonometry is not assumed or covered in Math 115, and second, this course places an emphasis on the fundamental concepts of calculus, and not just their consequences. Math 115 is not an appropriate course for someone who may go on and take Calculus II; those students should take Math 121 (this course).

Content:  
We will cover chapter 2-5 in the text. We will not cover the material in chapter 1, though you should review this material independently.

Course Prerequisites:  
A precalculus course that included trigonometry and analytic geometry. The material in chapter 1 of the text provides an overview of the material with which you should be familiar.

You cannot earn credit for Math 115 after taking Math 121.

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 be allowed to skip one problem on the final for which you will receive full credit (one tenth of the test). An excused absence must be discussed with me in advance, 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 on page 70 of the catalogue. It is your responsibility to obtain notes and assignments when you are absent.
If you are to be absent for an exam, you must make arrangements with me as early as possible before the day of the exam, 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 an exam unless I have been notified one week before the day of the exam.

**Grading:**

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>[93, 100]</td>
</tr>
<tr>
<td>A-</td>
<td>[90, 93)</td>
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<tr>
<td>B+</td>
<td>[87, 90)</td>
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<tr>
<td>B</td>
<td>[83, 87)</td>
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<tr>
<td>B-</td>
<td>[80, 83)</td>
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<tr>
<td>C+</td>
<td>[77, 80)</td>
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<tr>
<td>C</td>
<td>[73, 77)</td>
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<tr>
<td>D</td>
<td>[67, 70)</td>
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<td>D-</td>
<td>[63, 67)</td>
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<tr>
<td>D</td>
<td>[60, 63)</td>
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<td>F</td>
<td>[0, 60)</td>
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</tbody>
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The total percentage will be computed as follows:

- Homework: 15%
- Written Discovery Projects: 15%
- Exams: 3 × 15%
- Final Exam: 25%

**Homework:**

At the end of each lecture, I will assign both practice problems for you to test your comprehension and homework problems to be handed in. The homework from one week is due the following Wednesday. 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. I will also occasionally give in-class quizzes or group assignments that will count as homework assignments.

**Written Discovery Projects:**

There will be six discovery projects that consist of longer, more involved applications of the material. These projects must be typed and will be graded both on content and exposition.

**Late homework will not be accepted.**

**Exams:**

There will be three exams tentatively scheduled for Wed. Sept. 29th, Wed. Nov. 3rd, and Wed., Dec. 1st.

**Final Exam:**

The final exam is scheduled for Wednesday, Dec. 15th at 8:30am. It will be a closed-book, closed-notes, cumulative exam.
**Calculators:**
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.

**MatHelp:**
MatHelp is a free problem session run by students in the evenings (Sun. through Thurs. in OH 225; exact times to be determined). It is a place to enhance your understandings of the concepts of the course; however, it is not a place to get answers to your homework.

**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.

**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.