Instructor: Dr. Tom Caplinger
Office: 316 Ohlendorf
Phone: ..... $\times 3722$
e-mail: $\quad$ caplingert@rhodes.eduOffice hours: 9:00-10:00am MTWRF and by appointmentText: $\quad$ Calculus, Early Transcentental Functions, $4^{\text {th }}$ ed, byLarson et al, Houghton Mifflin, 2007

## Course description:

This course is an introduction to the concepts, formalism and applications of derivatives and integrals. Elementary transcendental functions are used throughout. Specific topics include limits, the derivative, applications of differentiation, the the definite integral, and the Fundamental Theorem of Calculus. Prerequisites: Students will need a background in algebra, trigonometry, and exponential and logarithmic functions.

## Requirements:

In addition to quizzes, four in-class tests, and a comprehensive final exam, students will complete several projects. Each of these is a written report of the solution to a problem. Students may work in groups to solve the problem, but students will write their own report. Grading of the projects will be based on accuracy, presentation and writing.

## Course content:

August 22
Chapter 1
August 24 - September $14 \quad$ Chapter 2
Hand out Project 1 - September 5 No class September 3
Project 1 due - September 12
September 17 - October $8 \quad$ Chapter 3
Test 2 - October 8
Hand out Project 2 - September 26
Project 2 due - October 3
October 10- October 31
Chapter 4
Hand out Project 3 - October 22
Project 3 due - October 29
November 1 - December $5 \quad 5.1$ - 5.5
Hand out Project 4 - November 19
Project 4 due - November 28
December10
Final Exam
Test 3 - October 31
No class October 15, 16

Test 4 - December 5
No Class November 21-23

1:00 pm

## Grading:

| Four in-class tests | $50 \%$ |
| :--- | :--- |
| Homework | $10 \%$ |
| Quizzes | $10 \%$ |
| Projects | $10 \%$ |
| Final Exam (comprehensive) | $20 \%$ |

If the final exam grade is higher than that any of the in-class tests, the final exam grade will replace that lowest in-class test grade. Course grades will be assigned on averages in the following ranges:

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

