

Calculus- Course Description and Syllabus

CSTEP Summer 2008

Instructor: Ken Knox

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Teaching Assistant: Andres Calvache

Text: Single Variable Calculus, Stony Brook Edition, 3rd edition, by James Stewart.

Course Dates: July 7 - 31

Class Time: 3:20-4:30, Monday through Thursday. Week one will be in the Stony Brook Union, room 247. Weeks 2-4 will be in ESS (Earth and Space Sciences) 181.

This is a four-week course in Calculus, which will cover the same material that MAT125 does, namely the first four chapters of our textbook. Specifically, we will cover functions and sets, the exponential and logarithm functions, limits and derivatives, and applications of the derivative such as curve sketching and optimization problems. Since we don't get to meet for an entire semester, we may have to omit some things.

Homework: Homework will be assigned every day that class meets, and will be due at the next class session. I will let you ask questions about the homework before turning it in, but please don't wait and try to do the assignment during class.

Quizzes: At the end of each week we will have quiz which will cover the material that we have done during that week. The questions on the quiz will be almost identical to selected questions from the homework. Therefore it is very important to do the homework and understand it.

Exams: Since this course is so short, we will not have a midterm. However we will have a final exam, which will consist of questions that are similar to what you see on the quizzes.

Grading: Your performance will be evaluated based on your participation and effort, homework, quizzes, and final exam. Even if you are struggling with the homework and quizzes, you should still make an effort to keep learning and make progress. This will reflect well on your evaluation. Roughly, the grades break down as follows:

Homework: 30%

Quizzes: 20%

Final Exam: 20%

Participation and Effort: 20%

Your Best Component: 10%