

## Calculus with Analytic Geometry I

The first in a sequence of four courses for students who are planning to major in engineering, mathematics, or the sciences. Graphical analysis of concepts is emphasized through the use of graphing calculators and *Mathematica*. Topics for the course include: limits and continuity, derivatives and their applications.

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**Office Hours:** Monday through Thursday 9:30-10:20 a.m. and Friday 7:30-8:20 a.m. In addition to my scheduled office hour, you may stop by at any time. You may also make an appointment to meet with me. You are responsible for all course material; if you do not understand a concept or problem please don't hesitate to ask a classmate, tutor, or me.

**Text:** *Calculus: Early Transcendentals*, by Jon Rogawski. This book is used for Math 124, 125, 126, and 224. Students are expected to read and study the sections of the book that we cover. There will be an electronic version of the text and the student solutions manual available as part of the CalcPortal online support we will be testing this quarter.

**Technology:** A graphing calculator is required for the course. In-class instruction will be on the TI-89 and *Mathematica*. Assignments, projects, and tests may require the use of *Mathematica*. This mathematical software is installed on the computers in our classroom and in the Math Lab. We have recently purchased a site license that will allow students the use of *Mathematica* at home. Although we will be using the computers in the classroom for Math 124, other computer activities as well as cell phone use are prohibited during class.

**Graph Paper:** Graph paper is required and available at the bookstore.

**Attendance:** Daily, punctual attendance is expected. If you should miss a class, you are responsible for all announcements made concerning the course, for the material discussed in class, and for the homework assignment due the following day. The homework assigned will be posted on the website.

**Homework:** Homework will be assigned and collected regularly. Each assignment will be worth three points, based on neatness and completion. You must show all work, including explanation in words where appropriate. Homework turned in one day late will be accepted for a possible two points. Homework will not be accepted more than one day late, however, your lowest three homework scores will be dropped at the end of the quarter. Homework will be worth 100 points of your final grade. Plan to spend a solid two hours every day reading, studying, and working through problems. I encourage you to work in groups and to obtain help from the Math Lab in Room 288, remembering that it is essential to understand the course material and to be able to solve problems independently.

**Exams:** There will be three mid-term exams. Each exam is worth 100 points. There will be a take-home portion requiring the use of *Mathematica* on each exam. You must show all work on exams, including explanation in words where appropriate. If you must miss an exam for a WWCC-related function, please contact me at least one week in advance in order to make proper arrangements. In the extremely rare case that you should miss an exam for other reasons, unless physically impossible, you must contact me before the exam in order to make arrangements to take the exam at another time. Please note that cell phones, headphones, computers, and sharing calculators are prohibited during exams.

**Miscellaneous:** Quizzes, projects, or other assignments may be given during the quarter.

**Final Exam:** The final exam is comprehensive and is worth 150 points. The final exam will be given Thursday, December 13<sup>th</sup> at 10:30. Taking the final exam on a day other than that scheduled must be arranged in writing through the Vice President of Instruction's office.

**Evaluation:** Your grade will be calculated by dividing the points you have earned by the points possible. Your grade will be determined from the following scale where  $x$  is the % of possible points you earned.

A	$x \geq 93$	B-	$80 \leq x < 83$	D+	$67 \leq x < 70$
A-	$90 \leq x < 93$	C+	$77 \leq x < 80$	D	$60 \leq x < 67$
B+	$87 \leq x < 90$	C	$73 \leq x < 77$	F	$x < 60$
B	$83 \leq x < 87$	C-	$70 \leq x < 73$		

If at the end of the quarter, your percent earned is very close to a grade minimum, it is possible your grade will be rounded up. This will be based on your exam scores and improvement. For example, an 89.9% could be rounded up to an A-. Your grade will not be rounded down.

**Notes:** Academic dishonesty is not tolerated and will result in a 0 grade. Do not hesitate to ask questions in class or in my office. It is essential that you consistently put forth the effort necessary to succeed, beginning today.

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both Claudia Angus, the Disabilities Coordinator in the Student Development Center, and me as early as possible in the quarter.