MAT 129 – 003
Spring 2014
Calculus I (4 credits)

INSTRUCTOR: Chris Christensen
Office phone: 859.572.6672
Office: MP 437
E-mail: christensen@nku.edu
Website: http://www.nku.edu/~christensen/

OFFICE HOURS: M 9:00 – 9:50, T 8:00 – 8:50, W 10:00 – 10:50, R 12:30 – 1:30, F 10:00 – 10:50, by appointment, and by capture.

CLASS TIME: M 1:00 – 1:50, TR 1:40 – 2:55. MP 314.

PREREQUISITE: A grade of B- or better in MAT 119 or placement.

TEXT: Calculus 7th Edition by James Stewart. An NKU paperback version is available.

CREDIT: Credit is not given for both MAT 129 and MAT 128.

TOPICS: We will cover most of the material in sections 1.5, 1.6 and 1.8 and in chapters 2, 3, 4, and 5.

GRADING: Three tests worth 100 points each 300
T, 18 February
R, 20 March
R, 24 April
Comprehensive final exam 200
R, 8 May, 1:00 – 3:00
Homework percentage 100
600

Work missed during excused absences may be made up without penalty.

A tentative grading scale is: 92-100 is an A, 90-91 is an A-, 88 - 89 is a B+, 82 - 87 is a B, 80 – 81 is a B-, 78 - 79 is a C+, 72 – 77 is a C, 70 - 71 is a C-, 68 - 69 is a D+, 60 – 67 is a D, and below 60 is an F.

ATTENDANCE: You are responsible for all material assigned or covered in class. Attendance will not be taken.

WITHDRAWAL: The deadline for withdrawing from this course with a grade of W is Monday, 24 March. Withdrawal after that date is not likely to be permitted.

Mid-Term grades will be entered 3 March – 18 March.

The instructor reserves the right to alter the syllabus if circumstances dictate.

The work you will do in this course is subject to the Student Honor Code. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain an academic advantage over fellow students or avoid academic requirements.
Course learning objectives

Pre-requisite
The student will know the mathematics needed to have a reasonable expectation of success in the mathematics and statistics courses for which Calculus I is a pre-requisite.

Breadth
The student will be able to solve problems involving limits, derivatives, definite integrals, and indefinite integrals.

Communication
The student will be able to write clear explanations of the techniques of calculus including the proper use of standard mathematical notation.

Connections/applicability
The student will be able to model applications by using calculus.

The student will know and be able to use the connections that exist between the course topics (for example the connections between: limits and the derivative; the derivative and the integral, the definite integral and area; the value of the derivative at a point, the slope of the tangent line to the graph at that point, and rate of change).

Mathematical thinking
The student will be able to recognize the problem type, select an appropriate solution strategy, and apply rules and procedures for solving the problem.

Attainment of course learning objectives will be measured by three tests, a comprehensive final exam, and homework.

Foundation of Knowledge Program: The Foundation of Knowledge program guides students to become independent learners, innovative thinkers, and responsible citizens. The program provides a foundation of values, knowledge, and skills that will empower them to discover their personal potential, communicate effectively, work in diverse communities, and solve problems in a global society. Courses in the program invite students to expand the life-long practice of asking questions, seek new points of view, apply principles of reason, adjust ideas in relation to new situations, and take reflective action. MAT 129 Calculus I is a general education course satisfying the quantitative reasoning requirement.

General Education Outcomes
Develop evidence-based arguments.
Use information technologies appropriately and effectively in written, spoken, or visual communication information.
Apply scientific and quantitative reasoning through problem solving or experimentation, and effectively communicate results through scientific, analytic and/or quantitative methods.

http://gened.nku.edu

Secondary Education Students: Additional information concerning Secondary Education Students is available on the Department Syllabus.
Instructor and Course Evaluations: Northern Kentucky University takes instructor and course evaluations seriously as an important means of gathering information for the enhancement of learning opportunities for its students. It is an important responsibility of NKU students as citizens of the University to participate in the instructor and course evaluation process. During the two weeks prior to the end of each semester classes, you will be asked to reflect upon what you have learned in this course, the extent to which you have invested the necessary effort to maximize your learning, and the role your instructor has played in the learning process. It is important that you complete the online evaluations with thoughtfully written comments.

Student evaluations of courses and instructors are regarded as strictly confidential. They are not available to the instructor until after final grades are submitted, and extensive precautions are taken to prevent your comments from being identified as coming from you.

Students who complete an evaluation for a particular course (or opt out of doing so in the evaluation) will be rewarded for their participation by having access to their course grade as soon as that grade is submitted by the instructor. On the other hand, any student who does not complete the course evaluation (or opt out of doing so in the evaluation) should expect to incur a two-week delay in accessing his or her course grade beyond the university’s official date for grade availability.

To complete online evaluations go to http://eval.nku.edu. Click on "student login" and use the same USERNAME and PASSWORD as used on campus.