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

OFFICE HOURS: M 8:00 – 8:50, T 8:00 – 9:00, W 2:00 – 2:50, R noon – 1:00,  
F 1:00 – 2:00, by appointment, and by capture.


PREREQUISITE: C- or better in MAT 129.

TEXT: Calculus by Jon Rogawski.

CALCULATOR: A Texas Instruments TI-89 Titanium, Voyage 200, or equivalent calculator is required for this course.

TOPICS: We will cover most of the material in chapter 7; sections 8.1, 8.2, and 8.6; sections 9.1 and 9.4; and chapters 11, 12, and 13.

GRADING: Three tests worth 100 points each  
W, February 17  
R, March 18  
W, April 21  
Comprehensive final exam  
T, May 4, 10:10 – 12:10  
Homework percentage  

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Three tests</td>
<td>300</td>
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<tr>
<td>Final exam</td>
<td>200</td>
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<tr>
<td>Homework percentage</td>
<td>100</td>
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<tr>
<td>Total</td>
<td>600</td>
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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.

Mid-Term grades for freshmen will be entered March 1 - 15.

WITHDRAWAL: The deadline for withdrawing from this course with a grade of W is Monday, March 29. Withdrawal after that date is not likely to be permitted.

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:

- The student will know the mathematics needed to have a reasonable expectation of success in the mathematics and statistics courses for which Calculus II is a prerequisite.
- The student will be able to solve problems involving derivatives, antiderivatives, and definite integrals of exponential functions, logarithmic functions, and inverse trigonometric functions.
- The student will be able to solve problems involving numerical methods of integration, series, sequences, and improper integrals.
- The student will be able to write clear explanations of the solutions of calculus problems including the proper use of standard mathematical notation.
- The student will be able to apply the content from Calculus I to Calculus II.
- The student will be able to recognize the problem type, select an appropriate solution strategy, and apply rules and procedures for solving the problem.
- The student will be able to apply theorems to solve problems.
- The student will be able to use a computer algebra system to calculate summations and display multiple representations of series.
- The student will be able to use a computer algebra system to graph parametric and polar curves and implement vector operations.

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