Goal: To develop a firm foundation of the methods and applications of differential calculus, and to explore the methods and applications of integral calculus.

Skills:
1. Describe the relationship between the tangent to a function and the derivative of the function.
2. Evaluate limits.
3. Determine the derivative of a function using the definition of derivative.
4. Determine the derivative of a function using power, product, quotient, and chain rules.
5. Determine the derivative of a function using implicit differentiation.
6. Use the derivative to find maxima and minima and points of inflection.
7. Describe the relationship between area under a curve and the integral of a function.
8. Describe the relationship between the derivative and the integral.
9. Evaluate definite and indefinite integrals.
10. Use the integral to find volumes of surfaces of revolution.


Instructor: Dr. Lisa Bloomer Green KOM 201B 898-5775
Lisa.Green@mtsu.edu http://mtweb.mtsu.edu/lbgreen

Office Hours: MWF 12:30-1:30, Tu 10:35-11:20, Th 11:15-12:15 and by appointment.

Grading:
<table>
<thead>
<tr>
<th>Classwork/Homework</th>
<th>As assigned</th>
<th>20%</th>
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</thead>
<tbody>
<tr>
<td>Best three of four tests</td>
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<tr>
<td>Test 1</td>
<td>February 1</td>
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<td>Test 2</td>
<td>February 22</td>
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<td>Test 3</td>
<td>March 21</td>
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<td>Test 4</td>
<td>April 11</td>
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<tr>
<td>Final Exam</td>
<td>Monday, April 30</td>
<td>9:30-11:30am</td>
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</tbody>
</table>

Grading Scale: A [90, 100]; B [80, 90); C [70, 80); D [60, 70); F [0, 60)
General Information

1. The final exam is on the date indicated above. The final exam will only be rescheduled if you have two finals on the same date.

2. Cell phones must be turned off during exams. “Vibrate” is not the same as “off.”

3. If you must miss class, it is your responsibility to find out what you missed and to learn the missed information.

4. There will be no make-ups for missed tests, homework, or classwork.

5. I do not send grades through email for privacy reasons. If you would like to check your grade, look on the class D2L page or stop by my office during office hours.

6. If you send email to me, whether to ask a question or set up an appointment, please remember to include your name and which class you are in.

7. The last day to drop without a grade is Jan. 25. Last day to drop with a “W” is Mar. 23. No grade of “W” will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student’s control. In particular, a “W” will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an “F” can have ramifications on financial aid.

8. A grade of “I” will be given only in accordance with university policy.

9. Math tutoring is available as a free service to MTSU students. Tutoring is conducted by Graduate Teaching Assistants (GTA’s), work study aids, and a faculty moderator. Tutoring for MATH 1910 will be in KOM 252. Tutoring will be available starting January 23 with hours of operation to be determined. The lab is closed on weekends and scheduled MTSU holidays. Days and times for tutoring specific topics are posted on the bulletin board outside room KOM 252. Please sign in with your name, course and instructor when you enter the lab. Forms for comments on your tutoring experience can be found at the sign-in table and turned in to the secretary in KOM 223D.

10. If you have a disability that may require assistance or accommodation, or you have questions related to any accommodations for testing, note takers, readers, etc., please speak with me as soon as possible. Students may also contact the Office of Disabled Students Services (898-2783) with questions about such services.

11. Do you have a lottery scholarship? To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until a bachelor degree is earned. For
additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at http://scholarships.web.mtsu.edu/telsconeligibility.htm, or contact the Financial Aid Office at 898-2830.