A grade of C or better in MATH 1101 or MATH 1111 or D in MATH 1113 or equivalent mathematics placement scores is a prerequisite for this course.

COURSE DESCRIPTION: This course is a non-rigorous study of differential and integral Calculus of functions of one variable with decision applications for business and social science. Math 1241 is NOT open to students with credit for Math 1501.

MATERIALS REQUIRED FOR THE COURSE:


2. Computer: Every CSU student is required to have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student’s academic program. See http://itpchoice.clayton.edu for full details of this policy. The computer will be needed when taking on-campus examinations. Students should have the standard CSU software installed on their computers as soon as possible. Please go to http://thehub.clayton.edu for information about setting up an appointment for having this software installed on your notebook computer. Students should use their assigned CSU email account to check for important information pertaining to this course.
3. **Math Software:** From time to time, we will use a graphing utility to visualize our problems. The software that will be used in Math 1241 is the free Graph software that can be downloaded from [http://www.padowan.dk/graph/Download.php](http://www.padowan.dk/graph/Download.php).

4. **MyMathLab:** All graded homework will be completed using MyMathLab, a web-based system. Your textbook, if purchased at the bookstore, should have been bundled with an access code for MyMathLab. If you purchased a textbook elsewhere, you will need to purchase an access code online. For more information, visit [www.mymathlab.com](http://www.mymathlab.com). The course ID for this class is **taylor43258**.

**GENERAL OUTLINE OF CONTENT**

CHAPTER 3: The Derivative (Sections 1-4)
CHAPTER 4: Calculating the Derivative (Sections 1-5)
CHAPTER 5: Graphs and the Derivative (Sections 1-3)
CHAPTER 6: Applications of the Derivative (Sections 1-2)
CHAPTER 7: Integration (Sections 1-5)

**Course Outcomes:**

Students successfully completing Math 1241 will be able to:

1. Solve problems that can be modeled by differential calculus.
2. Generate and interpret graphs of functions, their derivatives, and their integrals.
3. Apply theoretical concepts of differential calculus to answer questions and explain the reasoning used in constructing the answer.
4. Apply the required course software to graph and analyze functions and their derivatives.
5. Use correct terminology and definitions for differential calculus concepts.

**OTHER NOTES**

You will be responsible for sending and receiving email from your CSU account (I will NOT maintain a separate list of non-CSU email addresses). If you send an email to the instructor, be sure to include your name and use a meaningful subject line.

*All cell phones should be either turned off or in “silent” (not vibrate) mode during all class times.*

Your computer, and other forms of electronic information, should be used only for class activities. It is distracting to the professor and the rest of the class if you are doing anything other than participating in current class pursuits. If you must do something other than focus on this class, please do so outside our classroom. Multitasking in our time and space is not appropriate.

**ATTENDANCE:** Regular attendance is expected and necessary to understand the material of this course. Attendance will be taken every class period. **You are responsible for all work and information whether you attend class or not.**

**STUDENT RESPONSIBILITIES** have been established for all CSU students. It is your responsibility to read and adhere to all stated policies.
GRADING: All grades will be assigned on the traditional scale:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Possible Points</th>
<th>Total Points</th>
<th>Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>100</td>
<td>675 – 750</td>
<td>A</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100</td>
<td>600 – 674</td>
<td>B</td>
</tr>
<tr>
<td>Tests</td>
<td>400</td>
<td>525 - 599</td>
<td>C</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
<td>450 – 524</td>
<td>D</td>
</tr>
<tr>
<td>TOTAL POINTS</td>
<td>750</td>
<td>0-449</td>
<td>F</td>
</tr>
</tbody>
</table>

COURSE GRADE: Your course grade will be based on your total points accumulated from homework, tests and a final exam. **You are expected to do your own work in this class for all assignments. Any violation of this will result, at the minimum, in a grade of zero on that assignment. Academic Misconduct charges will also be filed.**

HOMEWORK: Graded homework assignments will be completed using MyMathLab. Each section covered in class, will have an online graded homework assignment. (Big sections may be split into 2 homework assignments.) It is your responsibility to set-up and maintain your MyMathLab account. It is your responsibility to maintain your computer and internet connection. At the end of the semester, the instructor will drop your 2 lowest homework grades.

QUIZZES: Graded quizzes will be completed using MyMathLab. Quizzes will generally cover 2 sections of material. It is your responsibility to set-up and maintain your MyMathLab account. It is your responsibility to maintain your computer and internet connection. At the end of the semester, the instructor will drop your 2 lowest quiz grades.

IN CLASS ASSIGNMENTS AND QUIZZES: The instructor at any time, either announced or unannounced, may give in class assignments and/or quizzes at his discretion, any of these assignments will count as a quiz assignment for grading purposes.

TESTS: There will be four tests given throughout the semester. Unless otherwise stated in class, these exams will be in class tests.

FINAL EXAM: The Final Exam is a cumulative exam. No student will be excused from taking the final exam, and only under unusual circumstances will a student be allowed to take the exams at any time other than the regularly scheduled time.

TESTING ENVIROMENT: During exams, everything must be on the floor, except the test, scratch paper (if applicable, some tests may require you to do your work on the test itself), calculators, computers open to only Graph and the standard computer calculator program (if allowed for that particular test) and pens or pencils. **Do not use your cell phone during the exam. Use of a cell phone, or having something other than what is allowed on your desk out during an exam is grounds for academic misconduct and will be referred to the appropriate department in accordance with university policy.** When you are finished with the exam, you will turn in all of your scratch work before you leave.
MAKEUP WORK: Since in most instances, students will have approximately a week to complete homework assignments, makeup work will only be allowed in EXTREME situations. The student will need to provide written documentation of a serious, verifiable excuse before the instructor decides if makeup work is warranted. The decision of the instructor on makeup work is final.

MAKEUP TESTS: Makeup tests will only be given when the student can provide written documentation of a serious, verifiable excuse as to why the student missed the exam. It will be up to the instructor to decide if a makeup test is warranted. If you know you will be missing a test ahead of time, please contact the instructor to see about arranging an early exam. If a student misses a test, the student will need to provide the written excuse a week of returning to class. If a makeup test is given, it will be given outside of normal class time at the instructor’s convenience; however, the instructor will try to find a time accommodating to the student. Be forewarned that the makeup test will often times be more difficult than the original test, since the instructor used the best questions for the original test.

MIDTERM ADVISORY GRADE: The mid-term grade in this course will reflect approximately 35% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available online from the Office of the Registrar, before the midterm date of March 6th.

RESOURCES: Your instructor holds regular office hours and is willing to help. The Center for Academic Success (CAS) is located on the lower level of the Library, and the CAS home page is http://adminservices.clayton.edu/caa/. The CAS sponsors a Peer Tutoring Program. Please see the CAA website for more information and to schedule an appointment with a Peer Tutor. Additional group instruction is available from the members of the CAS staff who have advanced mathematics training. There is also a Student Solutions Manual available in the CAS; purchase of the Student Solutions Manual is optional. There are materials and computer software which may be of help. If you need help on background arithmetic or algebra, there are also videotapes which may be of help. There are numerous books on calculus in the CSU library for further reference and study.

IMPORTANT DATES FOR THE SEMESTER:

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 12</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>January 15</td>
<td>Schedule Adjustment Ends</td>
</tr>
<tr>
<td>January 19</td>
<td>Martin Luther King Jr. Day (No Classes)</td>
</tr>
<tr>
<td>January 22</td>
<td>No Show Deadline</td>
</tr>
<tr>
<td>March 6</td>
<td>Midterm – Last Day to withdraw with a grade of W</td>
</tr>
<tr>
<td>March 9 – 14</td>
<td>Spring Break (No Classes)</td>
</tr>
<tr>
<td>May 4</td>
<td>Classes End</td>
</tr>
<tr>
<td>May 5 - 2:15 pm</td>
<td>Final Exam (Tentative until final exam schedule finalized by the registrar)</td>
</tr>
</tbody>
</table>
**DISABILITY SERVICES:** Students with disabilities who require reasonable accommodations need to register with Disability Services (DS) in order to obtain their accommodations. You can contact them at 678-466-5445 or disabilityservices@clayton.edu. If you are already registered with DS and are seeking accommodations for this course, please make an appointment with your instructor to discuss your specific accommodation needs for this course and give the instructor your accommodations letter.

**UNIVERSITY POLICIES:**

**The No Show Rule:** Any paid student who has failed to attend a class by the established deadline for the term (January 22 for Spring 2015) will be identified as a “no show.” The “no show” student will be administratively withdrawn from the class, as grade of W will be posted, and the student will NOT be reinstated. Any appeals on the decision are made to the Dean.

**The Three Tries Rule:** A student who has withdrawn or earned less than a satisfactory grade (F, U, D, WF, W) a total of three times in a course at CSU will not be allowed to take the course again. Any appeals on the decision are made to the Dean. (See the current Academic Catalog for details on these and other university policies.)

**Guests in the Classroom:** It is against university policy for anybody not currently enrolled in the course to be present in the classroom during class time. Therefore, no guests are allowed in the classroom.

**Teacher Education Policy:** The content of this course syllabus correlates to education standards established by national and state education governing agencies, accrediting agencies and learned society/professional education associations. Please refer to the course correlation matrices located at the following web site

[http://www.clayton.edu/arts-sciences/teachered/standardsoutcomes](http://www.clayton.edu/arts-sciences/teachered/standardsoutcomes)

**Conceptual Framework:**

The mission of the Teacher Education Unit is to prepare professional educators who engage in reflective practice and who are competent, caring, committed, collaborative, culturally responsive, and prepared to teach diverse learners in an ever-changing society. For the complete CSU Teacher Education Unit Conceptual Framework, follow the link below.

[http://www.clayton.edu/arts-sciences/teachered/standardsoutcomes](http://www.clayton.edu/arts-sciences/teachered/standardsoutcomes)