Math 2413 Calculus I Syllabus
North Lake College

Instructor Information
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Course Information
Course Title: Calculus I
Course Number: Math 2413
Section Number: 78701
Semester/Year: Fall 2019
Credit Hours: 4
Class Meeting Time/Location: 5:45-8:35 pm in P336
Certification Date: 10/28/2019
Last Day to Withdraw: 11/27/2019

Course Prerequisites
MATH 1348, MATH 2412 or equivalent

Course Description
This course is a study of limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. (4 Lec.)
**Student Learning Outcomes**

Upon successful completion of this course, students will:

1. Develop solutions for tangent and area problems using the concepts of limits, derivatives, and integrals
2. Draw graphs of algebraic and transcendental functions considering limits, continuity, and differentiability at a point.
3. Determine whether a function is continuous and/or differentiable at a point using limits.
4. Use differentiation rules to differentiate algebraic and transcendental functions.
5. Identify appropriate calculus concepts and techniques to provide mathematical models of real-world situations and determine solutions to applied problems.
6. Evaluate definite integrals using the Fundamental Theorem of Calculus.
7. Articulate the relationship between derivatives and integrals using the Fundamental Theorem of Calculus

**Texas Core Objectives**

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. **Personal Responsibility** - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
Required Course Materials


**Required On-Line Resource:** MyLabsPlus

**Title:** MyLabsPlus Access Code w/eBook for Calculus
**ISBN:** 9781323656617

To login to the North Lake College (NLC) MyLabsPlus (MLP) website to begin your coursework. You need to type the address: [NLC MLP web site](#) and use your student id number for both user and pswd

**Technical Support**

New website for Technical Support for MyLabsPlus: [MLP Support Web Site](#)

Technical support number for eCampus: 972-669-6402
Technical support number for MyLabsPlus: 1-888-883-1299

**Calculators:** A calculator is recommended for this class.

- Graphing calculators (such as the TI-83 or TI-84 Plus) are the recommended calculator. Calculators such as the TI 89 & TI 92, which perform algebraic operations, are not allowed.
- You will be allowed to use calculators on all tests.
- If need be, when taking tests in NLC testing center, you may check out a TI-84 calculator.

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Graded Work**

The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.
Summary of Graded Work

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Points</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLP HW /Quiz</td>
<td>100</td>
<td>100 points</td>
</tr>
<tr>
<td>Test 1: Ch 2</td>
<td>4 @ 100 points each</td>
<td>400 points</td>
</tr>
<tr>
<td>Test 2: Ch 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test 3: Ch 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Test 4: Ch 5</td>
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<td></td>
</tr>
<tr>
<td>Total points</td>
<td></td>
<td>500</td>
</tr>
</tbody>
</table>

Final Grade

<table>
<thead>
<tr>
<th>Points</th>
<th>Approximate Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>450-500</td>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>400-449</td>
<td>80-89.9%</td>
<td>B</td>
</tr>
<tr>
<td>350-399</td>
<td>70-79.9%</td>
<td>C</td>
</tr>
<tr>
<td>300-349</td>
<td>60-69.9%</td>
<td>D</td>
</tr>
<tr>
<td>0-299</td>
<td>0-59.9%</td>
<td>F</td>
</tr>
</tbody>
</table>

Description of Graded Work

Homework

- Homework is the most important learning tool in a course.
- Homework includes the SLO quizzes, HW sections posted in MLP and any assignment I may give in class.
- The classroom is to get supplementary information and assistance that is not available in the text.
- HW has unlimited attempts BEFORE the due date.
- Each homework assignment is anticipated to require approximately 2 hours in addition to 1 hour of content review for a total of 3 hours per class hour.

There will be two types of homework assigned:

1. Homework assigned for each section – problems posted in MLP
2. Periodic special problems assigned in class
In order to receive full credit, all homework in MyLabsPlus must be completed by the posted due date. (See MLP)

**The score found in MLP is NOT your final homework grade!**
At the end of the semester, I will manage incompletes – meaning, 0’s will be submitted for work not finished. Managing incompletes may change the homework average shown in the MLP gradebook.

In addition to homework, MyMathLab-Plus has many other resources to help you be successful in this course (videos, study plan, practice tests, tutorials, and many other tools).

**Free tutors** are available in the Math Center. Plan to spend time there! Form a study group! Online tutoring is now available! Go the Math Center and check it out.

**Quizzes:** random quiz questions from the last class materials will be given at the beginning of the next class. **There will be no makeup quizzes.** You will receive a zero if you miss a quiz because you are absent or tardy. One of the zero quiz scores will be dropped with a reasonable documentation for not being able to take it.

**Chapter Tests / Exams**
- Exams will be given in class and/or administered in the campus Testing Center.
- The exact exam dates will be announced during class. (Even though I do my best to follow the course calendar, however you should consider it as a tentative time)
- Calculators are allowed on all exams.
  - TI-83/84 or similar calculators and all scientific calculators are permitted on all exams. Calculators with computer algebra systems (CAS) such as the TI-92 or TI N-spire are not permitted on any exam.

**No Retakes / No Makeups**
- **Only extenuating circumstances where reasons for missing these exams are well documented, unpreventable, and were of urgent concern are considered.** These conditions are subject to your instructor’s judgment.
- If you are absent for more than one exam, you should contact your instructor as soon as possible to discuss your situation.

**Taking Tests in the Testing Center**
- Important: Government- or school-issued photo identification is required & enforced.
- You may not bring personal items into the Test Center. This includes bags, cell phones and pagers. Coin-reimbursable (quarter) lockers may be available for student use. **Please do not share lockers.**
- Please show courteous and cooperative behavior while using the services provided by the Testing Center.
• **Do not bring children to the testing center.** You must make arrangements for the care of your children prior to your exam date. The police department will be notified of any unattended children.

• **Do not** take any testing materials with you when you leave the Testing Center. This includes the test, answers, charts, scratch paper. These items will be attached to your test.

• **Academic Dishonesty**
  The Dallas County Community District has established procedures and guidelines to protect the security and integrity of all exams. All incidents of academic dishonesty are documented and reported to the instructor, the Director of Testing and the Dean of Student Enrollment.

Attendance and Your Final Grade
All students are expected to attend every class at the scheduled time.

Homework quizzes may be given daily at the beginning or end of class and will serve to take attendance.

**Late Work Policy**
No late work will be accepted.

**Other Course Policies**

**Classroom Behavior**
Distractive talking or any disorderly conduct is prohibited.
Please be courteous of others
Do not be late to class. It causes you to miss part of the classwork.
Everyone will be late on occasions. Do not make a habit of it.
If you anticipate an ongoing problem, please discuss it with the instructor.
Arriving after the quiz has been distributed will result in a zero for that daily quiz

**Cell Phone Use**
The use of cell phones or other similar devices is prohibited during class time.
You may be asked to leave class if your cell phone causes you or others to be distracted in class.

*Multi tasking has been proven to be non productive. If you are on your phone, you are missing the opportunity to gleem something from what I am trying to present.*
Institutional Policies

Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

North Lake Institutional Policies (http://www.northlakecollege.edu/syllabipolicies)