Calculus I ONLINE-INET Syllabus

NORTH LAKE COLLEGE
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Irving, Texas 75038-3899
DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

Instructor Information
Instructor's Name: Huy (Tim) Ngo
Email Address: hngo@dccc.edu
Office Phone Number: 927-273-3068
Office Location: C303E
Office Hours: M-W: 09:25AM-10: 55AM
T-Th: 04:40PM-05:40PM
Notes: Other times available by appointment.
Division Office and Phone: Location: P330
Telephone: 972-273-3500

Course Information
Course title: Calculus I
Course number: MATH 2413
Section number: 78431
Semester/Year: 2\textsuperscript{nd} 8 Weeks, Fall 2019.
Certification Date: 10/28/2019
Last Day to Withdraw: 11/27/2019
Credit hours: four (3)
Class meeting time: Students can work online anytime day or night.

Course Prerequisites
MATH 2412 or approval of instructor.

Course Description
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.
Student Learning Outcomes

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.

Means of Assessment of Course Learning Outcomes
Course Learning Outcomes will be assessed using a variety of means.
1. A written exam or online exam will be given to assess each Learning Outcome.
2. Homework will be assigned and assessed either using the software component or by the instructor.
3. Students will complete learning activities that will address specific course learning outcomes.

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**

**I) Required Textbook:**

*MyLabsPlus Access Code w/eBook for Calculus*
*Author:* Pearson
*ISBN:* 9781323656617
*Publisher:* Pearson Learning Solutions

**II) Calculators**

You will be allowed to use graphing calculator TI-83 or TI-84 Family on all tests. The graphing calculator TI-83 or TI-84 Family is required.

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.

The learning outcomes will be assessed through Individual work, Homework, and Exams. The final grade will be based on the following:

- [northlake.mylabsplus.com](http://northlake.mylabsplus.com) includes 3 parts:
  1) Homework 10%
  2) Mastery Tests: 20%
  3) Quizzes: 6%

- Proctored Midterm Exam 34%
- Proctored Final Exam 30%

**Final Grade**

Your course grade will be determined by the final grade average based on the following:
Description of Graded Work:

**Homework:** [northlake.mylabsplus.com](http://northlake.mylabsplus.com) includes 3 parts:

4) Homework 10%
5) Mastery Tests: 20%
6) Quizzes: 6%

Each student is required to purchase the online component (called MyLabsPlus) that comes with a new book.

Homework is the **most important learning tool** in a course.

- It reinforces instruction.
- It provides an immediate and personal measure of your competence in the course.
- Always express the answers to stated problems (word problems) in a sentence which identifies what you have determined to be the answer.
  - An important part of mathematical literacy is good communication skills.
  - First, write the problem or the essential facts.
  - Second, present mathematical sentences showing the progression of your ideas.
  - Third, present a conclusion using a complete sentence.
- More details about what is expected on homework assignments and tests can be found in eCampus.

**Tests**

There are 2 types of tests: Mastery tests and proctored (Midterm and Final) exams.

All tests (Mastery Tests and Proctored Exams) **are to be completed without receiving help of any kind.** This includes, but is not limited to, working with other people, using notes and/or textbook, looking for answers online, etc. Failure to follow this rule will result in one or more of the consequences listed under Academic Dishonesty.

**Mastery Tests:**

- All mastery tests will be taken at home using MyLabsPlus
  - The mastery test will help determine your readiness to take the Proctored Midterm and Final Exam.
    - All mastery tests must be treated like a written test (no notes, no book, no help of any kind).
    - You will have limited attempts to take each mastery test.
✓ The highest grade on each mastery test will be used to determine your average. *The mastery test average will be a portion of your final course grade. See Grading Scale below for details*

Proctored Tests – Midterm and Final Exam

**OPTIONS FOR TAKING THE MIDTERM & FINAL EXAM:**

**Option I:**
The midterm and the final can be taken at any DCCCD college or in a supervised testing situation at a testing site mutually agreed upon. Students must notify the instructor as to which college is best for testing by filling out the student profile form.

**Option II: For students that live outside the DCCCD testing area**
Students who live out of the Dallas area may either use option 1 or arrange for a proctor using the proctor nomination form in the Dallas TeleCollege. There is a link to the proctor nomination form in the "External Links" area of the eCampus classroom.

The proctored exams are there to ensure that wherever you choose to transfer or whatever university you attend, this class will be accepted. It has come to our attention that some universities are now making students retake certain courses that do not require at least 50% of the course work to be proctored. By using the procedures stated above, this course meets/exceeds the minimum 50% requirement.

- You must contact the instructor via email at least two weeks before you are ready to take either the midterm or final exam so that it can be sent to the appropriate test center. Exams are usually only sent out on Tuesdays.

- The midterm exam is comprehensive and will be given after Chapter 5.

- The final exam is comprehensive and is given after all assignments have been completed. It covers the entire course, but the majority comes from the second half of the course.

- For the final exam, students must adhere to the test schedule given in the course calendar. A student may take the final exam early ~ contact your instructor.

- The midterm and the final must be taken at a DCCCD college or in a supervised testing situation at a testing site mutually agreed upon or as a proctored exam at home. Students must notify the instructor as to which college is best for testing by filling out the student profile form and emailing the instructor within the first week of class with the desired campus indicated.

- Students who live out of the Dallas area may either take the exam at home as described above or arrange for a proctor using the proctor nomination form in the Dallas TeleCollege. No proctored tests will be sent to a location in Dallas County other than a
DCCCD campus test center unless accommodation is being made through Disability Services. There is a link to the proctor nomination form in the “External Links” area of the eCampus classroom.

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)

Course Schedule

MATH 2413 ONLINE-INET Course – Fall 2019 Second 8 Week Course Calendar

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>October 22</td>
<td>Classes Begin</td>
</tr>
<tr>
<td>October 28</td>
<td>Certification Date (Last day to drop WITHOUT record on Your transcript).</td>
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<tr>
<td>November 27</td>
<td>Last Day to Withdraw with grade of W</td>
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<tr>
<td>November 28-30</td>
<td>Holidays: NO classes.</td>
</tr>
<tr>
<td>December 02, 2019</td>
<td>Last day to take final exam at any NON-North Lake Central Campus</td>
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<td></td>
<td>Testing site – Note: Not all testing centers are open on Saturday</td>
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<tr>
<td>December 09:</td>
<td><strong>6 PM, Dec. 09, 2019</strong>: Last day to take Final Exam at the</td>
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<tr>
<td></td>
<td>North Lake Testing Center (Central Campus only).</td>
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The following timeline is for 8 weeks section of Math 2413

Orientation:

- Log into eCampus
- Carefully work through the START HERE section in eCampus
- Complete the Day 1 & 2 assignment.

| Week 1 10-22-19 | • Email Professor testing location for Proctored Midterm and Final Exam. |
|                 | • Section 2.1, 2.2, 2.3, 2.4 and 2.5 (northlake.mylabsplus.com)         |
| Week 2 10-28-19 | • SLO #1: Quiz #1 (northlake.mylabsplus.com)                             |
|                 | • Section 2.6 (northlake.mylabsplus.com)                                |
|                 | • Mastery Test: Chapter 2 (northlake.mylabsplus.com)                    |
Testing in the Testing Center

- Take a chapter test in the Testing Center, Room L240, on or before the regularly scheduled test dates.
- To test you will need to have the following information:
  1. Instructor’s name
  2. Subject, course number, and section number
     (ex: Math 2413-78431 ONLINE-INET)

   **Be careful to NOT take the lecture based tests -- you will be required to go back to the testing center and take the tests designated for INERNET (INET or online).**

  3. Please clearly indicate the Proctored Midterm on Protored Final Exam.
  4. Exam deadline (Get this information from your instructor. The testing staff
cannot look up this information on computers).

- You should also bring the following supplies:
  1. Pencil
  3. Government or school issued photo identification is required & enforced.
  4. Only battery operated 4 function, non-programmable scientific or TI83/TI84 calculators are allowed (if permitted by instructor). The memory on your calculator will be cleared.

**Testing Center Hours (L240)**

- The Testing Center normal hours are Mon – Thurs: 8:30 a.m. to 8 p.m. and Fri and Sat: 8:30 a.m. to 3:30 p.m. Important: hours and days may vary due to holidays or other events, please verify the Testing Center will be open before you arrive.
- Questions? Please visit the Testing Center (L240) or call 972-273-3160.

Testing Center Policies (additional)

- No personal items in the Testing Center. This includes bags, cell phones, and pagers.
- Please show courteous and cooperative behavior while using the services provided by the Testing Center.
- **NO children in the Testing Center.** No exceptions. 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. **(To do so constitutes Academic Dishonesty.)**

**Math Center**

The STEM Center, located in L137 and L139 provides assistance and resources free to students enrolled in mathematics and developmental mathematics classes at North Lake College.

This is a great place to bring a study group, study quietly, get help with math classes, and use the center’s various resources.

Services offered:

- Tutorial services in all math courses taught at North Lake College
- Computers for use by students enrolled in courses that have an Internet component such as homework systems (i.e., MyLabsPlus, ConnectMath)
- Graphing calculators for use in the center
- Textbooks for use in the center
- A quiet area to study (Just ask one of the tutors)
- Opportunity for students to make up class absences
- Whiteboards space for study groups
- Content workshops covering how to use graphing calculators, course topics, review sessions, and study skills
Contact the STEM Center Manager (Math)

Hours of Operation
Monday – Thursday: 9 a.m. – 6 p.m.
Friday & Saturday: 9 a.m. – 2 p.m.
Manager: Camrun Beck, Room L135, camrunn.beck@dcccd.edu