Calculus I, 2nd 7 week Spring 2020 Syllabus

NORTH LAKE COLLEGE
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Instructor Information
Instructor's Name: Huy (Tim) Ngo
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Office Phone Number: 927-273-3068
Office Location: C303E (NOW: ONLINE-INET)
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: 70711
Semester/Year: 2nd 7 Week, SPRING 2020.
Certification Date: 04/03/2020
Last Day to Withdraw: 05/04/2020
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: My Labs Plus Access Code w/eBook for Calculus**

- **Author:** Pearson  
- **ISBN:** 9781323656617  
- **Publisher:** Pearson Learning Solutions

The My Labs Plus is accessed with the **MyMathLab – Plus access code**. 
Student ID number and email address listed in eConnect will be uploaded into the My Labs Plus software to provide the student access to the course materials. If you have questions or concerns contact the math division office at: [7mascioff@dccc.edu](mailto:7mascioff@dccc.edu)  
[ northlake.mylabsplus.com](http://northlake.mylabsplus.com)

User: ID  
Password: ID

Example:  
User: 1234567  
Password: 1234567

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 and Course Grade**

Your course grade will be calculated on a percentage weight system. Each category counts as a percentage of your total, final grade in the course.

- **Homework online (MLP) Northlake.mylabsplus.com:** 20%
  
  10 Pop Quizzes: online (MLP) Northlake.mylabsplus.com 20%
  
  (NO Makeup quizzes will be given).

- **Three Written Tests Average** 60% (20% each Test)

Test #3 count as Final Exam. Start 05:45PM- END 08:30PM, Tuesday, May 12, 2020

(NO late Final Exam will be allowed).

**All tests:** Test #1, Test #2 and Test #3 count as Final Exam will be taken using mymathlab.com
Grading Scale

Your course grade will be determined by the final grade average based on the following:  
A = 90 – 100  B = 80 – 89  C = 70 – 79  D = 60 – 69  F = 0 – 59

Exams

All tests: Test #1, Test #2 and Test #3 count as Final Exam will be taken using mymathlab.com

Test #3 count as Final Exam, Start 05:45PM- END 08:30PM, Tuesday, May 12, 2020
(NO late Final Exam will be allowed).

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-93 or TI N-spire are not permitted on any exam.  
Practice exams are provided as a study aid.  All practice exams and solutions will be provided during the lecture or available at Math Lab.

If you unable to take the exam by the given deadline, you will be given a zero. The AVERAGE of 3 exams will be used to replace the lowest (ONLY ONE) of your first three exam scores, including a zero due to an exam not taken. If you are absent for an exam, you should contact your instructor as soon as possible to discuss your situation.  
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.  
Example: Test 1 = 50 points, Test 2 = 60 points, Test 3 = 100 points.  
Then average of 3 exams = (50 + 60 + 100)/3 = 70 points will be replaced Test 1 = 70 points.

The Due Dates for Exam 1, Exam 2, or Exam 3 (Count as Final Exam) are stated below.  If you do not take each exam by its respective due date below, you will receive a zero (0) grade for that exam.  
Exam 1: Thursday, April 9, 2020; Start 5:45 PM- END 8:30 PM Sharp.  
Exam 2: Thursday, April 30, 2020; Start 5:45 PM- END 8:30 PM Sharp.  
Test #3 count as Final Exam, Start 05:45PM- END 08:30PM Sharp, Tuesday, May 12, 2020
(NO late Final Exam will be allowed).

Very sorry, but if you’re missed the Final Exam then your Final Exam Grade will be zero.  
The exam will be 13 (thirteen) questions that come from your practice test.  
The concepts are the same with the Practice Test but the numbers must be different.  
The POP quizzes:  
Will be taken using mymathlab.com during class period Tuesday-Thursday: 5:45 PM- end
8:30 PM. You have 3 (Three) attempts for it.

Grade Alternatives
Incomplete: Only given in EXTREME CIRCUMSTANCES and usually for medical reasons. You must be passing and have at most one test and the final exam remaining.

Discipline/ Course/ Department/Policies

The attendance:
Please log into your mymathlab.com account on Tuesday-Thursday start 5:45 PM- end 8:30 PM. Please use this class period time to study material, do your homework, POP Quizzes, and Tests.

The POP quizzes:
Will be taken using mymathlab.com during class period Tuesday-Thursday: 5:45 PM- end 8:30 PM. You have 3 (Three) attempts for it.

HOMEWORK: Homework is the most important learning tool in a course. The classroom environment is more favorable for learning when the student has studied the material in the text, has tried to work the problems, and uses the classroom to get supplementary information and assistance that is not available in the text. 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.

Penalty for Academic Dishonesty
Academic dishonesty may result in the following sanctions, including, but not limited to:
1. A grade of zero or a lowered grade on the assignment or course.
2. A reprimand.
3. Suspension from the college.

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 Tentative Calendar.**  
**MATH 2413 Lecture Course – Spring Second 8 Week Course Calendar**

| Week 1  03-30-20 | • Section 2.1, 2.2, 2.3 2.4, 2.5 and 2.6  
|                 | **Exam 1:** Thursday, April 9, 2020; Start 5:45 PM- END 8:30 PM Sharp.  
|                 | Covers chapter 2. |
| Week 2  04-06-20 | Section 3.1, 3.2 3.3, 3.4, 3.5, and 3.6 |
| Week 3  04-13-20 | • Section 3.7, 3.8, 3.9, 3.10 and 3.11 |
| Week 4  04-20-20 | • Section 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7 and 4.8  
|                 | **Exam 2:** Thursday, April 30, 2020; Start 5:45 PM- END 8:30 PM Sharp.  
|                 | Covers Chapters 3 and 4. |
| Week 5  04-27-20 | • Section 5.1, 5.2, 5.3, 5.4, 5.5 and 5.6  
|                 | • **Last Day to Withdraw:** Friday, May 01, 2020. |
| Week 6  05-04-20 | • Final Exam Review |
| Week 7  Tuesday, May 12, 2020 | **Test #3 count as Final Exam,** Start 05:45PM- END 08:30PM Sharp,  
|                 | **Tuesday, May 12, 2020** (NO late Final Exam will be allowed).  
|                 | **Very sorry, but if you’re missed the Final Exam then your Final Exam Grade will be zero.** |
All test work must be written neatly on paper and the answer submitted online.

Please sign the attached cover sheet, then email it to me. Exams cannot be graded without a cover sheet - be sure to sign it and email it to me.

If you unable to take the exam by the given deadline, you will be given a zero. If you are absent for an exam, you should contact your instructor as soon as possible to discuss your situation. 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.

NOTE: THE INSTRUCTOR RESERVES THE RIGHT TO MAKE CHANGES TO THE SYLLABUS AS NECESSARY

Math Center

We will be offering math tutoring online in the following format March 30th until we are back to normal working conditions. To make it easier for students to access online tutoring the STEM Lab Manager have included two (2) links to the online tutoring site. Each link corresponds to a day and time frame. Please click on the link below.

**Monday-Thursday 9am-8pm:**
https://us.bbcollab.com/guest/d52039516bfb48c88507ecdbc8b2bdae

**Friday-Saturday 9am-2pm:**
https://us.bbcollab.com/guest/e3cabb98bc004185b98502aff377b79b

For example if a student is trying to get tutoring Monday-Thursday between 9am and 8pm, there is a specific link for that tutoring session. If they are trying to get tutoring Friday-Saturday between 9am and 2pm, there is a specific link for that tutoring session.

If there are any questions or if students are having any issues the STEM Lab Manager can be reached at camrunn.beck@dcccd.edu