COURSE SYLLABUS
Calculus I, MATH 2413
Fall, 2019

MATH & SCIENCE DIVISION
P 330, 972-273-3500
Monday—Thursday 7:30 am—8:00 pm
Friday 7:30 am—5:00 pm

This course syllabus is intended as a set of guidelines for Calculus I. Both North Lake College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.

Instructor Information:
Instructor: Gary Dickson
Office: C338
E-mail: gdickson@dcccd.edu
Phone: 972-273-3500 (leave message)
Office Hours: by appointment

Course Information:
Course: MATH 2413
Section: 78211
Credit hours: 4
Class meeting: October 22, 2019 - December 10, 2019
Class meeting time: 7:30 am – 9:20 am
Room: P335
Attendance: Attendance at the scheduled time is mandatory.

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.
Course prerequisites: MATH 2412

Materials

Required Textbook


On-Line Resource

MyLabsPlus (optional but recommended)

To login to the North Lake MyLabsPlus website to begin your coursework. You need to type the address: [http://northlake.mylabsplus.com](http://northlake.mylabsplus.com) and use your student id number for both user and pswd

Technical Support

NEW WEBSITE for Technical Support for MyLabsPlus: [https://support.pearson.com/getsupport/s/](https://support.pearson.com/getsupport/s/)

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) may be used on tests. 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.

Course objective

The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

Course 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
Assessment & Evaluation Procedures of Course Learning Outcomes

Graded Assessments

Tests: Four (4) unit tests will be given. The first three tests will be taken in the North Lake College Testing Center. The fourth and last test will be given in the classroom at the last class meeting. Students scoring higher than zero but lower than 70 on any of the first three tests make retake the test in the Testing Center, possibly resulting in a higher grade. A maximum grade of 70 will be given on the retake.

Quizzes: Seven (7) quizzes (each counting 20 points) will be given in the classroom during regular class time. Attendance is required at the time the Quiz is passed out. No makeup quizzes will be given.

Final Grade: Each of the 4 unit tests – 20% ; the sum of the five highest quiz grades – 20% .

Grading Scale
The final course grade will be determined as follows.
A = 90 – 100      B = 80 – 89      C = 70 – 79      D = 60 – 69      F = 0 – 59

Grade Alternative: Incomplete
An Incomplete grade will be given only in EXTREME CIRCUMSTANCES - usually for medical reasons. It must also be approved by the Dean of Math and Science. You must be passing and have at most one test remaining.

Discipline/ Course/ Department/Policies

Cell Phones
Cell phones should be turned off and put away when the class starts. No cell phones of any type may be in view at any time during the class.

Absences/Tardies
Absences are generally detrimental to one’s performance in a course. You are expected to attend regularly in order that you may increase your chances for a successful semester in calculus. If you must miss a class, it is your responsibility to make up any missed work. Three tardies will count as one absence. You will be tardy if you arrive more than 10 minutes late.

Tardiness is strongly discouraged as it is disruptive to the class and thus the students who are on time. It is better to come late than not at all, however, as long as it is not a habit with one particular individual. If you anticipate a particular problem, please discuss it with me during office hours.

Homework
Homework is an 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.

**Note:** Each student may purchase the online component (called MyLabsPlus) that does not come with the book and must be purchased separately. MyLabsPlus also contains videos, tutorials, practice tests, and many other tools that may increase your success in this course.

**Testing in the Testing Center**

To take a test in the Testing Center you will need to supply a photo ID, your student ID number, your instructor’s name, and the course number and section. Calculators may be used on all tests.

**Bathroom Breaks during Testing**

Students taking tests in math and science are discouraged to leave the testing center or the classroom during a test and return to complete the test. If you need special accommodations, talk to your instructor or the Disability Services Office. Accommodations can be made. You can contact the Disability Services Office in person (A430) or by phone at 972-273-3165. For more information, visit the Disability Services on the Institutional policies link.

**Testing Center Information (Room L240)**

**Testing Policy for Mathematics & Science Division:**

- If you need special accommodations you must talk to your instructor and submit a request to the Disability Services Office in person (A414) or by phone at 972-273-3165. Visit [http://www.northlakecollege.edu/services-and-resources/advice-and-assistance/Pages/disability-services.aspx](http://www.northlakecollege.edu/services-and-resources/advice-and-assistance/Pages/disability-services.aspx) for more information.
- You may not bring personal items into the Test Center. This includes bags, cell phones and pagers. Coin-reimbursable (quarter) lockers are available for student use. The testing center is not responsible for lost or stolen items. 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. **To do so constitutes Academic Dishonesty.**

**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. **Questions? Please visit the Testing Center or call 972-273-3160.**

**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 or call 972-273-3160.

**Testing Center Procedures**

If your instructor requires you to complete an exam in the Testing Center, be sure to have the following information when you request your test.

- Instructor’s name
- Subject and course number (Math 2342)
- Exam number (1st, 2nd, 3rd, etc.)
- 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.

- Pencil & Eraser
- Only battery operated 4-function calculator is allowed (if permitted by instructor).
- Money for coin-return lockers (quarter). Please do not share lockers.

**Important:** Government- or school-issued photo identification is required & enforced.

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: Camrunn Beck, Room L135, camrunn.beck@dcccd.edu

** Institutional Policies

North Lake College Syllabi Policies

**Drop Policy**
If you are unable to complete this course, you must withdraw by Tuesday, November, 27, 2019. Withdrawing is a formal procedure which you must initiate by you; your instructor cannot do it for you.
**Course Calendar**

The course calendar gives tentative timing of the course coverage and tests.

*Note: Instructor reserves the right to make changes to this syllabus and calendar as necessary.*

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