



Calculus I - Math 2413.085

Course Syllabus: Summer 2019

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

Dr. Leah Reagan, Professor of Mathematics

Office: Humanities Building, 128 B

Email: lreagan@ntcc.edu (email or Remind texting is the fastest way to reach me)

****Professor will respond within 24 hours (usually sooner).**

<u>Online Office Hours:</u> Professor checks email multiple times daily and will respond promptly.	Monday	Tuesday	Wednesday	Thursday	Friday
	Online all summer				

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description (include prerequisites): Calculus I is a standard first course in the calculus. Topics include differentiation of algebraic and trigonometric functions, differentiation formulas, applications of the derivative, mean value theorem, maxima/minima, points of inflection, curve sketching, antiderivatives, definite and indefinite integrals, upper and lower sums, and the fundamental theorem of calculus. Prerequisite: MATH 2412 (Precalculus) or its equivalent.

Required Textbook(s):

Larson/Edwards, Calculus, 11th Edition & WebAssign Passcode:

In the effort to save students money, your course materials are delivered through Inclusive Access. You have already paid for your course materials with your tuition and fees. Below are the required course materials:

1-285-85848-4 LARSON / CALCULUS BINDER TEXT W/WEBASSIGN

To access your course materials, click on the Course Materials Access link within the Start Here folder on Blackboard.

For additional information on Inclusive Access, please access the textbook information provided on the portal (student tab, click on Academics then Textbooks.)

Recommended Reading(s):

None

Student Learning Outcomes:

Upon successful completion of this course, students will:

2413.1 Determine the limit of a function graphically, numerically, and analytically.

2413.2 Calculate derivatives using the definition of the derivative as the limit of a difference quotient.

2413.3 Calculate derivatives of algebraic, trigonometric, and implicit functions.

2413.4 Apply methods of calculus to graph polynomial, rational, and trigonometric functions.

2413.6 Problem-solve a broad base of application problems involving differentiation including but not limited to Rolle's Theorem and the Mean Value Theorem.

2413.7 Calculate and apply antiderivatives of algebraic and trigonometric functions.

2413.8 Understand the relationship between antiderivative and integral by way of the Fundamental Theorem of Calculus.

SCANS Skills: N/A

Course Outline:

Submission of homework problems will be determined on a section-by-section basis. Changes on individual problem sets may be made in class. Select sections will be given through WebAssign.

Section 1.1

Section 1.3

Section 1.4

Section 1.5

Section 2.1

EXAM #1: June 24 - 25

Section 2.2

Section 2.3

Section 2.4

Section 2.5

Section 2.6

Section 3.1

EXAM #2: July 11 - 12

Section 3.2

Section 3.3

Section 3.4

Section 3.5

Section 3.6

Section 3.7

Section 3.9

EXAM #3: July 27 - 28

Section 4.1

Section 4.2

Section 4.3

Section 4.4

COMPREHENSIVE FINAL - August 12 - 14

Evaluation/Grading Policy:

There will be three major exams for a total worth of 45% of the final grade. Each exam will be worth 15% of your total grade ($15 \times 3 = 45\%$). Homework will be worth 35%. A comprehensive final examination will contribute 20% to the final grade.

3 Major Exams	45% (15% each)
Homework Grade	35%
Comprehensive Final Exam	<u>20%</u>
TOTAL	100%

Make-up exams will not be given unless the student has coordinated with the instructor at least two days prior to the exam. Late work will incur a penalty of 10 points per day, unless otherwise indicated by the instructor. The 2nd exam and the Final Exam must be proctored.

Grading System

"A"	90-100%
"B"	80-89%
"C"	70-79%
"D"	60-69%
"F"	< 60%

Other Course Requirements

A graphing calculator is required for this course. TI 84, 89, or Voyage 200.

Student Responsibilities/Expectations:

Attendance: Students are expected to check in to the class often (**DAILY IN THE SUMMER**) on Blackboard and WebAssign to find the assignments and communications from Professor Reagan. Since this is an online class, students must be self-motivated to keep up with the due dates, turn in assignments ON TIME, and take Exams as scheduled.

Students in the online section of this class must submit assignments on the due dates to remain enrolled in the class. The professor reserves the right to administratively drop a student who goes beyond two weeks in turning in online assignments unless the instructor is notified and given a valid reason for late assignments.

The college's official means of communication is via your campus email address. I will use your campus email address, Blackboard, and Remind texting to communicate with this summer. Make sure you keep your campus email cleaned out and below the limit so you can receive important messages.

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with Shannin Garrett, Academic Advisor/Coordinator of Special Populations located in the College Connection. She can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#).

Family Educational Rights And Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

6 Drop Rule: "Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade of "W") from more than six courses. This six-course limit includes courses that a transfer student has previously dropped at other Texas public institutions of higher education if they fall under the law. Students should be sure they fully understand this drop limit before they drop a course. Please visit the admissions office or counseling/advising center for additional information and assistance."

Other Course Policies:

The college's official means of communication is via your campus email address. I will use your campus email address, Blackboard, and Remind texting to communicate with you outside of class. Make sure you keep your campus email cleaned out and below the limit so you can receive important messages.

Campus Safety: Northeast Texas Community College (NTCC) is committed to maintaining the safety of the students, faculty, staff, and guests while visiting any of our campuses. See NTCC's website for details and to receive emergency notifications automatically by phone. In the event of an emergency contact NTCC Police at 903-434-8127.