



Math 1325.088 DC Business Calculus Online

Course Syllabus: Spring 2026

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	1:06 – 1:53 pm	Contact by email during any other time				

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description:

This course is a basic study of limits, continuity, derivatives, techniques and applications of derivatives, optimization, and graphing, integrals, techniques and applications of integrals and multivariate calculus. Applications in business, economics, and social sciences are emphasized. Three hours credit.

Prerequisite(s): MATH 1314 or MATH 1324 with a grade of “C” or better

Student Learning Outcomes:

- 1325.1 Apply calculus to solve business, economics, and social sciences problems.
- 1325.2 Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
- 1325.3 Solve application problems involving implicit differentiation and related rates.
- 1325.4 Solve optimization problems with emphasis on business and social sciences applications.
- 1325.5 Determine appropriate technique(s) of integration.
- 1325.6 Integrate functions using the method of integration by parts or substitution, as appropriate.
- 1325.7 Solve business, economics, and social sciences application problems using integration techniques.

Core Curriculum Purpose and Objectives:

Through the core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning.

Courses in the foundation area of mathematics focus on quantitative literacy in logic, patterns, and relationships. In addition, these courses involve the understanding of key mathematical concepts and the application of appropriate

quantitative tools to everyday experience.

College Student Learning Outcomes:

Critical Thinking Skills

CT.1 Students will demonstrate the ability to 1) analyze complex issues, 2) synthesize information, and 3) evaluate the logic, validity, and relevance of data.

Communication Skills

CS.1 Students will effectively develop, interpret and express ideas through written communication.

Empirical and Quantitative Skills

EQS.1 Students will manipulate numerical data or observable facts by organizing and converting relevant information into mathematical or empirical form

EQS.2 Students will analyze numerical data or observable facts by processing information with correct calculations, explicit notations, and appropriate technology.

EQS.3 Students will draw informed conclusions from numerical data or observable facts that are accurate, complete, and relevant to the investigation.

Evaluation/Grading Policy

A series of online Blackboard engagement opportunities including discussion forums/participation (10%), chapter quizzes (20%) and online homework problems – Lumen OHM (30%) will be worth 60% of your final grade. A Midterm Exam (covering Chapter 2) and a comprehensive Final Exam will contribute to 40% of the final grade (both exams **MUST** be proctored). TEAMS will be used as an online proctor for this course. Detailed information will be in Blackboard.

Homework via Lumen OHM and module quizzes are graded when submitted. Discussion forums graded within 72 hours **after** the due date. The Midterm Exam and comprehensive Final Exam is graded when submitted. A grading rubric for discussion forums is available in the Appendix at the end of the syllabus.

Discussion Forums	10%	“A”	90 – 100 %
Homework – Lumen OHM	30%	“B”	80 – 89 %
Chapter Quizzes	20%	“C”	70 – 79 %
Midterm Exam/ Final Exam	40%	“D”	60 – 69 %
Total:	100%	“F”	Below 60 %

Make-up exam will not be given unless the student has coordinated with the instructor prior to the exam.

Lumen OHM homework will require the use of “Late Passes” if not completed by the scheduled due date. Each student has 255 late passes that extend the assignment due date for 48 hours. Students may use more than one late pass per assignment that is past due.

Any missed work will be made up at the discretion of the instructor. It is the student’s responsibility to contact the instructor.

Required Instructional Materials:

Inclusive Access Course: A discounted textbook fee is added to your student account to cover the cost of the required access code. You will access through Blackboard on the first-class day.

Business Calculus by Calaway, Hoffman, & Lippman textbook will be available free online as a PDF at <http://www.opentextbookstore.com/buscalc/>. You are not required to buy a hardcopy of the textbook; however,

research shows that students learn more and retain it longer from using a hardcopy textbook. You may purchase one via NTCC Bookstore or online at Lulu.com.

Publisher: Lulu.com

ISBN Number: NA

Optional Instructional Materials:

A print version of the textbook is recommended.

Minimum Technology Requirements:

Graphing Calculator is recommended. The TI-83/84 is recommended. A free online TI-83 will be available in Blackboard for PCs.

Below are some technical requirements for using Blackboard that will help your experience in this course.

You will see the NTCC Tech Support email address and phone number below. Please contact them if you run into any technical problems during the semester. Please let your instructor know you are having difficulties as well.

If you need further NTCC technical support services, please contact Austin Baker or Mary Lou Pemberton at:
abaker@ntcc.edu or 903-434-8279
mpemberton@ntcc.edu or 903-434-8270

Blackboard will work on both a Mac and a PC. (Chrome Books are known to have issues with Blackboard.) It is best to access Blackboard through Fire-Fox or Chrome as your web browser. If you have trouble with any of the activities working properly, you might change your web browser as your first solution. The Default Browser in Windows 10 is Edge. This browser does not do well with Blackboard! If you go to Windows Accessories you will find Internet Explorer still on your computer but is not your default browser. If you have any difficulties navigating with Edge, close it and go to Internet Explorer.

To use TEAMS you must have access to a computer with high-speed internet, a microphone, a Webcam, and appropriate systems rights to download any necessary software. Please note, the college does not provide this equipment.

You can download Blackboard Student for your smart phone from the Play store or the App store.

More information is available for Technology Requirements and Support under the [Student Resources – Technical Support Tab in Blackboard](#).

Required Computer Literacy Skills:

As an online student you will have a much different "classroom" experience than a traditional student. In order to ensure that you are fully prepared for your online courses, following is a list of expectations and requirements: Students in a hybrid and/or on-line program should be comfortable with and possess the following skill sets:

1. Self-discipline
2. Problem solving skills
3. Critical thinking skills
4. Enjoy communication in the written word

As part of your online experience, you can expect to utilize a variety of technology mediums as part of your curriculum:

1. Communicate via email including sending attachments
2. Navigate the World Wide Web using a Web browser such as Internet Explorer
3. Use office applications such as Microsoft Office (or similar) to create documents
4. Be willing to learn how to communicate using a discussion board and upload assignments to a classroom Web site
5. Be comfortable uploading and downloading saved files

6. Have easy access to the Internet
7. Navigate Blackboard, including using the email component within Blackboard. Instructions and tutorials for this are provided in your course.

For more information or technical assistance on using the Learning Management System, please refer to the Home Page, Orientation Module, in the important technical requirement, information and support folder in Blackboard.

Course Structure and Overview:

This is an eight-week online course where students are required to access graded activities on the Blackboard Learning Management System. A typical class involves general participation by all members in discussions regarding mathematical principles and procedures being studied. Students are required to complete online homework, discussion forums, as well as module quizzes. It is very important students keep up with course materials and assignments since this is a very fast-paced course. Students are expected to watch instructional videos, read course textbook, and complete online assignments located in the Learning Management System, Blackboard, by due dates.

Communications:

Emails will be responded to with 24 hours. If you do not receive a response within 24 hours, then the email was not received. Posts in the Discussion Forum “Questions, Comments, and/or Concerns?” will be monitored by the instructor. Responses by the instructor will be within 72 hours of post. Students are expected to abide by Netiquette rules when communicating online. See this link for details: [Netiquette Rules](#).

The college’s official means of communication is via your campus email address. I will use your campus email address and Blackboard 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.

Institutional/Course Policy:

No late work will be accepted without prior approval by the instructor. Students are always expected to be respectful toward classmates and professor! Review Student Conduct in the Student Handbook. It is the student’s responsibility to check Blackboard for important information/announcements regarding the course. Students should be working on course material via Blackboard every week. Do not wait until the last minute to complete and submit assignments in case of technology issues.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC’s website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:

Absent a clear statement from a course instructor, use of or consultation with generative AI shall be treated analogously to assistance from another person (collusion). Generative AI is a subset of AI that utilizes machine learning models to create new, original content, such as images, text, or music, based on patterns and structures learned from existing data (Cornell, Center for Teaching Innovation). Unauthorized use of generative AI tools to complete an assignment or exam is not permitted. Students should acknowledge the use of generative AI and default to disclosing such assistance when in doubt. Individual course instructors may set their own policies regulating the use of generative AI tools in their courses, including allowing or disallowing some or all uses of such tools. Students who are unsure of policies regarding generative AI

tools are encouraged to ask their instructors for clarification. (Adapted from the Stanford University Office of Community Standards-- accessed August 31, 2023)

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

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 the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations' page on the NTCC website.

Eagle Assist

At Northeast Texas Community College, we understand that students often need support that extends beyond the classroom. "Eagle Assist" is the place to start when looking for that type of assistance. Our support system is here to help you succeed in both your academic and personal growth. www.ntcc.edu/eagleassist

Services provided:

- [Mental Health Counseling](#)
- [Classroom Accommodations](#)
- [NTCC Care Center Food Pantry](#)
- [NTCC Care Center Hygiene Closet](#)
- [NTCC Care Center Cook Nook](#)
- [Financial Literacy](#)
- [Child Care Assistance](#)
- [Emergency Aid](#)

Can't find what you are looking for? Send us a message at eagleassist@ntcc.edu

[Mental Health Counseling Services](#) are available to all NTCC students.

- Visit the following page to get your account activated:

www.thevirtualcaregroup.com/ntcc

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.

Tentative Course Timeline (*note* instructor reserves the right to adjust this timeline at any point in the term):

Math1325.088 Course Schedule (Subject to Change)

<u>Weeks</u>	<u>Topics</u>	<u>Assignments</u>	<u>Due Dates</u>
Week 1: 1/20 – 1/25	Orientation	*Read through orientation module *Complete Syllabus Acknowledgement Agreement AND Introduction Discussion Forum *Review Chapter 1 content *Submit Proctor Form, if needed. (Only required if you CANNOT test at NTCC’s Testing Center or use TEAMs.)	1/25/26
Week 2: 1/26 – 2/1	Sections 2.1 – 2.2	*Read textbook & watch section videos. *Work on assigned online Lumen Homework.	2/1/26
Week 3: 2/2 – 2/8 Spring Census 2/4/26	Sections 2.3 – 2.4	*Read textbook & watch section videos. *Work on assigned online Lumen Homework.	2/8/26
Week 4: 2/9 – 2/15	Sections 2.5 – 2.6	*Read textbook & watch section videos. *Work on assigned online Lumen Homework. *Work on Midterm Discussion Forum. Math Rubric will be provided.	2/15/26
Week 5: 2/16 – 2/22	Sections 2.7 – 2.8	*Read textbook & watch section videos. *Work on assigned online Lumen Homework. *Work on Midterm Discussion Forum.	2/22/26
Week: 6: 2/23 – 3/1	Sections 2.9 – 2.10	*Read textbook & watch section videos. *Work on assigned online Lumen Homework. *Work on Midterm Discussion Forum.	3/1/26
Week 7: 3/2 – 3/8	Section 2.11	*Read textbook & watch section video. *Work on assigned online Lumen Homework. *Work on Midterm Discussion Forum. *Complete Chapter 2 Quiz.	3/8/26
Week 8: 3/9 – 3/15 Midterm Exam MUST be Proctored.	MIDTERM Midterm Exam and Midterm Discussion	*REMEMBER: Midterm exam will be proctored. *Complete Midterm Discussion forum.	3/15/26
Week 9: 3/16 – 3/22	SPRING BREAK		
Week 10: 3/23 – 3/29	Section 3.1	*Read textbook & watch section video. *Work on assigned online Lumen Homework.	3/29/26
Week 11: 3/30 – 4/5	Sections 3.2 – 3.3	*Read textbook & watch section videos. *Work on assigned online Lumen Homework. *Work on Final Discussion Forum. Math rubric will be provided.	4/5/26

Week 12: 4/6 – 4/12	Section 3.4	*Read textbook & watch section video. *Work on assigned online Lumen Homework. *Work on Final Discussion Forum.	4/13/26
Week 13: 4/13 – 4/19 Final day to withdraw is 4/16	Section 3.5	*Read textbook & watch section video. *Work on assigned online Lumen Homework. *Work on Final Discussion Forum.	4/19/26
Week 14: 4/20 – 4/26	Section 3.6	*Read textbook & watch section video. *Work on assigned online Lumen Homework. *Work on Final Discussion Forum.	4/26/26
Week 15: 4/27 – 5/3	Section 3.7	*Read textbook & watch section video. *Work on assigned online Lumen Homework. *Work on Final Discussion Forum. *Complete Chapter 3 Quiz	5/3/26
Week 16: 5/4 – 5/14 FINAL EXAM Exact day and time will be announced closer to end of semester	FINAL Final Exam and Final Discussion	*REMEMBER: Final exam will be proctored. *Submit Final Discussion Forum (initial post due by 5/7 so that replies can be completed by 5/8).	5/14/26

Discussion Forum Math Rubric:

9 – 10: The student completes all important components of the task and communicates ideas clearly.

The student demonstrates in-depth understanding of the relevant concepts and/or processes. Where appropriate, the student chooses more efficient and/or sophisticated processes. Where appropriate, the student offers insightful interpretations or extensions (generalizations, applications, analogies).

7 – 8: The student completes most important components of the task and communicates clearly. The student demonstrates understanding of major concepts even though she/he overlooks or misunderstands some less important ideas or details.

5 – 6: The student completes some important components of the task and communicates those clearly. The student demonstrates that there are gaps in his/her conceptual understanding.

3 – 4: Student shows minimal understanding. Student unable to generate strategy or answer may display only recall effect. Answer lacks clear communication.

1 – 2: Answer may be totally incorrect or irrelevant.

0: Blank/no response