

# NORTH CENTRAL TEXAS COLLEGE

## COURSE SYLLABUS

### COURSE AND INSTRUCTOR INFORMATION

**Course title:** Calculus for Business & Social Sciences

**Course prefix, number, and section number:** MATH 1325 0401

**Semester/Year of course:** Fall 2023

**Semester start and end dates:** 8/28/2023 – 12/16/2023

**Modality:** Face to face

**Class meeting location, days, and times:** Tuesday/Thursday; COR Rm264, 11:00am – 12:20pm

**Semester credit hours:** 3 (Lecture hours: 48)

**Course description:** This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413, Calculus I.

**Course prerequisites:** MATH 1314 College Algebra or MATH 1324 Mathematics for Business and Social Sciences

**Required course materials:** MyLab Math access code (e-text included in MyLab Math access)

Scientific calculator, TI-30X IIS is recommended

Graphing calculators and phone calculators will not be allowed on exams.

**Optional course materials:** Mathematics with Applications in the Management, Natural, and Social Sciences, Lial/Hungerford/Holcomb/Mullins, 13th edition, Pearson, 2024

**Name of instructor:** Marla Owens

**Office location:** COR / 206

**Telephone number:** 940-498-6226

**E-mail address:** mowens@nctc.edu

**Students hours:** Tuesday/Thursday 9:00 - 11:00 am, 12:30- 2:00 pm, 4:30 - 5:00 pm *OR*

*Online/Virtual Available as needed by Appointment*

### STUDENT HOURS (OFFICE HOURS)

Each week instructors have time set aside to meet with students outside of class. (Traditionally these times have been called “office hours”.) This is a time when a student may ask questions regarding the class, or discuss a particular problem/topic with an instructor one-on-

one. Student hours may be held in-person or online. See below for instructions on where/when/how instructors will offer student hours in this class.

All student hours are listed above on the Corinth Campus, or virtually according by appointment. Students are welcome to come by my office during those times listed above. Students are encouraged to send an email to verify the time and date, or to remind me that they are coming to my office. A brief explanation about the topic that the student is needing help with will help the instructor prepare for the meeting **All virtual student hours will be in Canvas on the Cisco Webex platform**

### **MATH TUTORING LAB**

Students who need help with any math class can visit the NCTC Mathematics Lab to receive assistance. There are math tutors available on every campus and online. This service is free for all students enrolled in an NCTC math class. Sign up for an appointment or see the most current tutoring hours for all campuses at <https://www.nctc.edu/math-lab>.

### **SYLLABUS CHANGE DISCLAIMER**

The faculty member reserves the right to make changes to this published syllabus if it is in the best interest of the educational development of this class. Any such changes will be announced as soon as possible in person and/or writing.

### **SUMMARY OF COURSE ASSIGNMENTS**

#### **List of graded assignments:**

# of Graded Elements	Title of Graded Element	Percentage
16	Attendance	5%
> 50	Homework	10%
>10	Quizzes	15%
4	Tests	50%
1	Final Exam	20%

**Final grade scale: 90 – 100% = A; 80 – 89% = B; 70 – 79% = C; 60 – 69% = D; Below 60% = F**

\*The final exam is a departmental comprehensive algebra exam and must be taken by all students. **The final exam may also be used to replace the lowest unit test grade.**

**Homework:** All homework assignments are to be completed on the computer using MyMathLab (MML). Homework is an important component in student success for this course. Homework reinforces the topics from each section. Homework assignments in MML will have unlimited number of attempts and the highest score will be recorded.

**Quizzes:** Quizzes are assigned using MyMathLab. Students will have **three** attempts for each online quiz. Some quizzes may have time limits. The highest score will be recorded.

**Tests:** Four tests will be given according to the tentative calendar. Tests will be taken in a PROCTORED environment. The tests will be given in person by the instructor. There will be one attempt, and a time limit. **There are no make-up tests.**

**SEE CANVAS FOR THE COMPLETE COURSE CALENDAR, OUTLINE, DETAILED DESCRIPTION OF GRADED WORK, AND OTHER RELATED MATERIAL.**

### COURSE POLICIES

#### **Academic Integrity Policy:**

Scholastic dishonesty shall include, but is not limited to cheating, plagiarism, academic falsification, intellectual property dishonesty, academic dishonesty facilitation, and collusion. The use of online math solvers with submitted work is considered academic dishonesty. Faculty members may document and bring charges against a student who is engaged in or is suspected to be engaged in academic dishonesty. See Student Handbook, "Student Rights & Responsibilities: Student Code of Conduct ([FLB(LOCAL)])".

Consequences for academic dishonesty may include:

1. Zero on the assignment
2. Failing grade for the course

#### **Attendance Policy:**

Regular attendance is expected and necessary for student success in this course. For more information on attendance regulations please see the 2022-2023 NCTC Catalog.

(<https://www.nctc.edu/catalog>; Click on 2022-2023 CATALOG and go to page 138 to see Attendance Regulations)

#### **Withdrawal Policy**

A student may withdraw from a course on or after the official date of record. It is the student's responsibility to initiate and complete a Withdrawal Request Form.

Last day to withdraw from this course with a "W" is: Monday, November 6, 2023

**Student Learning Outcomes:** *At the successful completion of this course the student will be able to:*

1. Apply calculus to solve business, economics, and social sciences problems.
2. Apply appropriate differentiation techniques to obtain derivatives of various functions, including logarithmic and exponential functions.
3. Solve application problems involving implicit differentiation and related rates.
4. Solve optimization problems with emphasis on business and social sciences applications.

5. Determine appropriate technique(s) of integration.
6. Integrate functions using the method of integration by parts or substitution, as appropriate.
7. Solve business, economics, and social sciences applications problems using integration techniques.

**Core Objectives:**

- X Critical Thinking
- X Communication
- X Empirical and Quantitative  
Teamwork  
Personal Responsibility  
Social Responsibility

**COLLEGE POLICIES**

**STUDENT HANDBOOK**

Students are expected to follow all rules and regulations found in the Student Handbook. To access Student Handbook go to NCTC homepage ([www.nctc.edu](http://www.nctc.edu)), scroll to bottom and click "Student Handbook".

**ADA STATEMENT**

NCTC will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations to afford equal educational opportunity. It is the student's responsibility to contact the Office for Students with Disabilities to arrange appropriate accommodations. See the OSD Syllabus Addendum.

**STUDENT SERVICES**

NCTC provides a multitude of services and resources to support students. See the Student Services Syllabus Addendum for a listing of those departments and links to their sites.

**QUESTIONS, CONCERNS, or COMPLAINTS**

The student should contact the instructor to deal with any questions, concerns, or complaints specific to the class. If the student and faculty are not able to resolve the issue, the student may contact the chair or coordinator of the division. If the student remains unsatisfied, the student may proceed to contact the instructional dean.

**Name of Chair/Coordinator:** Ben Owens

**Office location:** Corinth 174

**Telephone number:** 940.498.6209

**E-mail address:** [bowens@nctc.edu](mailto:bowens@nctc.edu)

**Name of Instructional Dean:** Mary Martinson

**Office location:** Gainesville 1403

**Telephone number:** 940.668.7731 ext. 4377

**E-mail address:** [mmartinson@nctc.edu](mailto:mmartinson@nctc.edu)