



**Syllabus:** Calculus I

**Course Number:** MATH 2413

**Semester & Year:**

**Instructor Information**

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**Textbook/Supply Information**

Textbook: Calculus Early Transcendentals, 3<sup>rd</sup> Edition; Briggs, Cochran, Gillett, Schulz  
MyMathLab Access Code; Course Notes Packet with 3-ring binder and dividers

TI-83 plus or TI-84 plus graphing calculator (TI-89 is not allowed in this course)

**Student Learning Outcomes for the Course**

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.

**Student Requirements for Completion of the Course and Due Dates**

Material to be covered: Chapters 2-5, 12

Your grade for this class will be based on Chapter tests, Homework/Daily work and Quizzes, and three comprehensive exams (mid-semester and a two-part final). Tentative due dates are provided in the Tentative Course Schedule.

This course may be designed as a hybrid course or as an asynchronous (WEB) course. In the hybrid format, the course will meet in-person and/or synchronously through TEAMS for some material and will include some video-based instruction created by the instructor. In the web format, all content will be delivered through asynchronous video-based instruction created by the instructor. Either way, you will be responsible for creating a work schedule for yourself, keeping up with all of the reading, assignments, online tests, etc. It takes a fair amount of self-discipline to do well in a Calculus course. So make a plan, and stick to it so that you complete all of your work by the stated due dates.

The course will utilize MyMathLab (MML) for unit exams and homework. The unit exams and the comprehensive Midterm and Final Exams must be taken either 1) at the TC Testing Center located inside the TC Library (Academic Commons), 2) through Moodle using the Respondus lockdown browser and camera test monitoring platform, and/or 3) at a proctored test setting if you live more than 50 miles out of town and have advance approval by the instructor for your proctor location based on the Proctor Requirements provided below. See the course shell in Moodle for details regarding each exam.

### Proctor Requirements

If you live within a 50 mile radius of Texarkana College, you must take your midterm and final exam in the Texarkana College Testing Center located in the Texarkana College Library(Academic Commons), located on campus.

Students living outside the 50 mile radius of Texarkana College, and who do not wish to drive to the TC campus to take their tests, must find their own proctor.

An acceptable proctor must be one of the following:

- Educational administrator or librarian at a community college, university, or high school
- Librarian at a public library
- Learning Center, ESO, or an officer of higher rank than the student, if in the military
- College, university, or private testing center

**Note: Any cost for either the proctor or proctoring site is the full responsibility of the student. (This applies only if you are not taking tests at TC.)**

### Student Assessment

The average of your chapter tests will be 50% of your grade. Your daily assignments, which include homework, quizzes and other class work, will be 20% of your grade. The average of your 3 comprehensive exams, midterm and final, will be 30% of your grade. I do consider your attentiveness, class participation, and conduct in assigning grades in borderline cases.

### Grading Scale

Grade	
A	90-100
B	80-89
C	70-79
D	60-69
F	59-below

### Class Schedule

Sections 2.1 – 2.7, Chapter 2 Test Limits

Sections 3.1 – 3.11, Chapter 3 Test Derivatives

Section 12.1 – 12.4, Parametric & Polar Curves, Conic Sections

Midterm Test

Sections 4.1 – 4.5, Ch 4A Test Applications of Derivatives

Sections 4.6 – 4.7, 4.9

Sections 5.1-5.5, Chapter 4B/5 Test Applications of Derivatives & Antiderivatives/Integration

Final Exam Part 1 and Part 2

### **Maximum Allowable Absences**

After official registration, for Academic classes that meet three times a week, an instructor may withdraw a student from a course if they exceed 4 absences.

### **Absentee Policy**

Students are expected to attend each meeting of their registered courses. Texarkana College's absentee policy allows instructors to withdraw a student from a course due to excessive absences. If a student leaves and returns during class or leaves the class before the class is over, he/she **may** be considered tardy. Three tardies constitute one absence. If you arrive after I have taken role you will be counted absent. It is your responsibility at the end of the class period to inform me that you arrived late so that I can change the absence to a tardy. After that class period, if you have not informed me that you came in tardy, the absence will stand.

A student should not stop attending a class without formally withdrawing from the course by the institutions published Last Day for Students to Drop. If a student stops attending class after the published Last Day for Students to Drop, the student **may** receive a grade of "F" in the class. The instructor will submit the last date of attendance for students receiving a grade of "F" or "W".

Withdrawal from a course(s) **may** affect a student's current or future financial aid eligibility. Students should consult the Financial Aid Office to learn both short and long term consequences of a withdrawal.

### **Excused Absences**

The only absences that are considered excused and will not be counted against a student's allowable number of absences are absences due to school trips and/or school business or absences for military duty and Holy Days (FBD LEGAL), which are covered in a separate section of the catalog and the student handbook. These are the only excused absences that are considered by Texarkana College.

Responsibility for work missed for any absence is placed on the student. Instructors are required to allow students to make up work missed if the absence is due to military duty or religious holy days when students follow the correct notification procedures. Instructors are not required to allow students to make up work for absences due to other reasons.

### **Make-up Policy**

**There will be no make-up exams for major tests.** Any test missed will be recorded as a zero. Any student missing 3 major tests may be dropped from the course. If the final exam grade is higher than one of your chapter test grades, that grade will replace the lower test score.

### **Class Behavior**

There will be a zero tolerance policy for any behavior that is a disruption to classroom learning. This includes ANY use of vulgar language or rude behavior toward instructor or any other student in the class. This also includes disruptive cell phone usage during class. Please be considerate of others who are trying to learn by using your cell phone appropriately during class time. A student may be dropped from the course for violating these or any other classroom policies.

## Alternate Operations during Campus Closure

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, Texarkana College may need to move to altered operations and course delivery methods. During this time, Texarkana College may opt to continue delivery of instruction through methods that include, but are not limited to: online learning management system (Jenzabar or Moodle), online conferencing through TEAMS, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor Texarkana College's website ([www.texarkanacollege.edu](http://www.texarkanacollege.edu)) for instructions about continuing courses remotely, instructor email notifications on the method of delivery and course-specific communication, and Texarkana College email notifications for important general information.

## COVID-19 Online/Virtual Environment Instructional Commitment

The ongoing Covid-19 situation will require that some course materials and instruction are provided through an online and/or virtual format. Even if all or a portion of a class was originally scheduled to meet face to face, social distancing guidelines associated with Covid-19 will limit the number of students who are able to attend face to face classes in person simultaneously. Further, circumstances associated with Covid-19 could cause the college to be forced to shift completely to an online and/or virtual delivery at any time during the semester. While TC faculty members are committed to providing students the option of face to face instruction if possible, students should be prepared to continue their classes in an online and/or virtual environment if necessary. Texarkana College is committed to maintaining engaging, high quality instruction regardless of the delivery format.

## Computer Requirement Policy

Students are required to have a computer with Internet access for classes. The computer must be an actual computer – **smart phones, iPads, Androids, Chromebooks, etc., are NOT ACCEPTABLE** substitutes because they lack software compatibility necessary to complete all assignments and tests. Financial costs for the necessary equipment and internet access are the responsibility of the student.

Students needing to purchase a computer may do so through the Texarkana College Bookstore. Systems purchased through the bookstore meet or exceed all requirements, are competitively priced, and may be purchased using financial aid funds. If the system is purchased through another source, it is the student's responsibility to ensure the system meets all requirements.

Computer systems requirements:

- Webcam, microphone, and speakers or headphones
- Windows 10 or a recent version of Mac OS (minimum Sierra). Windows 10 S mode is not supported
- Hardware capable of running Microsoft Teams (free download) and supports multi-media playback
- Support for Chrome or Microsoft Edge – Note: Firefox, Safari, or other browsers may not work on all TC applications
- Able to run Microsoft Office which will be provided free to TC students
- Adobe Reader or another PDF viewer
- Antivirus software such as Windows Defender or another 3<sup>rd</sup> party anti-virus solution

- The Respondus Lockdown browser is used for taking tests; therefore, the system must be capable of running this software. Most newer systems that meet other specifications should work.

Students should regularly backup content to prevent loss of coursework due to hardware failure. Backup copies of documents and other coursework may be placed on OneDrive cloud storage. OneDrive is included free of charge for all TC students. A list of Internet service providers can be found on the TC website at: <https://www.texarkanacollege.edu/coronavirus/>.

### **Academic Integrity Statement**

This college assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct, including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. You are required to complete all work independently unless otherwise instructed- no excuses or exceptions. Unless a test is identified as “open book,” the student may not use any notes or resources of any kind that are not explicitly identified as allowable by the teacher. The student may not use problem solving apps, Internet searches, or any other human or technology-based tool to assist with testing (unless approved through Disability Services).

Scholastic dishonesty, involving but not limited to cheating on a test, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an “F”.

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses. This information can be found in the Student Handbook at <https://texarkanacollege.edu>.

### **Academic Integrity and Use of AI Tools Policy**

As members of the academic community, you are expected to uphold the highest standards of integrity. The advent of artificial intelligence (AI) tools offers new opportunities and challenges in our pursuit of knowledge and academic growth. To maintain fairness and integrity in our academic work, the following guidelines are established for the use of AI in this course:

#### **Acceptable Use of AI Tools**

1. Research Assistance: AI tools may be used for preliminary research and to assist in locating academic sources. Proper citations must be provided for any materials found via AI tools.
2. Skill Development: AI may be employed for skill development in areas such as coding, languages, and mathematical problem-solving. Use these tools responsibly to enhance your understanding rather than replace your learning efforts.

#### **Prohibited Use of AI Tools**

1. Assignments and Examinations: AI tools must not be used to generate content or answers for assignments, projects, quizzes, or exams. Submitting AI-generated work as your own is considered academic dishonesty.

2. Paraphrasing and Translation: Using AI to paraphrase text or translate assignments is not permissible if it disguises the source material without proper acknowledgment. All work submitted should be in your own words and reflect your own understanding.

### **Disclosure and Citation**

1. Acknowledgment: If any AI tools are used to aid in your learning process (e.g., for brainstorming or editing), their use must be disclosed in a brief statement in your submission.
2. Citation: All AI-assisted content must be properly cited according to the appropriate academic style guide mentioned in this syllabus.

### **Consequences of Misuse**

Violating this policy will result in disciplinary actions consistent with the College's Academic Integrity Policy, which may include failing the assignment, failing the course, or further disciplinary measures.

### **Basic Needs Security Statement**

Any student who has difficulty affording groceries or accessing enough food to eat every day, or who lacks a safe and stable place to live and believes this may affect their performance in this course or ability to remain in school, is urged to contact Tonja Blase, Director of Student Retention, at 903.823.3349 for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to help provide access to resources.

### **Disability Act Statement:**

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Tonja Blasé' at 903.823.3349.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

### **Financial Aid:**

**Attention!** Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.

\*The instructor reserves the right to amend the syllabus at any time.