



Syllabus: Calculus II

Course Number: MATH 2414

Semester & Year: Generic

Instructor Information

Name: Dr. Crane

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Office Hours:

Textbook Information

"Calculus 2" from Openstax is available free online:

<https://openstax.org/details/calculus-volume-2>

and is linked in myTC

A graphing calculator (preferably a TI84)

(TI89 and TI92 cannot be used on tests)

Student Learning Outcomes for the Course

1. Use the concepts of definite integrals to solve problems involving area, volume, work, and other physical applications.
2. Use substitution, integration by parts, trigonometric substitution, partial fractions, and tables of anti-derivatives to evaluate definite and indefinite integrals.
3. Define an improper integral.
4. Apply the concepts of limits, convergence, and divergence to evaluate some classes of improper integrals.
5. Determine convergence or divergence of sequences and series.
6. Use Taylor and Maclaurin series to represent functions.
7. Use Taylor or Maclaurin series to integrate functions not integrable by conventional methods.
8. Use the concept of polar coordinates to find areas, lengths of curves, and representation of conic sections.

Student Assessment

- Chapter tests – 60%
- Participation – 10%
- Homework – 10%
- Final Exam – 20%

Grading

- A 90-100% B 80-89% C 70-79% D 60-69% F 0-59%

Academic Progress

Students with very low grades at midterm may be dropped from the course.

Conduct

Students are expected to adhere to all deadlines, guidelines, and standards of student conduct in the Texarkana College Student Handbook.

Class Schedule

Week 1	Intro	Section 1.4	Section 2.1
	Section 2.2	Section 2.3	
	Section 2.4	Review	
	Test 1	Section 2.5	Section 2.6
Week 2	Section 2.7	Section 2.8	Section 2.9
	Review	Test 2	
	Section 7.3	Section 7.4	
Week 3	Section 7.5	Review	
	Test 3	Section 3.1	
	Section 3.2	Section 3.3	Section 3.4
	Section 3.5	Section 3.6	Section 3.7
Week 4	Review	Test 4	
	Section 5.1	Section 5.2	Section 5.2
	Section 5.3	Section 5.4	
	Section 5.5	Section 5.6	
Week 5	Review	Test 5	
	Section 6.1	Section 6.2	
	Section 6.3	Section 6.4	
	Review	Test 6	
	Review	Final	

This schedule is approximate and therefore subject to change.

Absentee Policy

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 absent. Three tardies constitute one absence. It is the student's responsibility to check the syllabus for each instructor's tardy policy.

In some workforce/vocational areas, such as nursing and cosmetology, certification requirements necessitate an absentee policy that is more stringent than the institutional policy. In these instances, the matter of certification takes precedence over local policies, since certification policies are established by the State of Texas.

Faculty members are not obligated to provide opportunities for students to make-up missed assignments and tests as a result of a student's absence from class. The institution is not required to take attendance with the exception of workforce/vocational areas, where certification requirements require taking attendance. However, experience demonstrates that regular attendance enhances academic success. As such, students are expected to attend each meeting of their registered courses.

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

A student's absence due to school trips and/or school business will not be counted against a student's allowable number of absences. Military duty and absences for Holy Days (FBD LEGAL) 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 policies are listed in each individual instructor's syllabus.

Maximum Allowable Absences

After official registration, the following number of unexcused absences will be the maximum allowable before a student **may** be dropped from the class. Mandated program certification requirements detailed for certain programs regarding the maximum allowable unexcused absences takes precedence over the following information.

A COURSE THAT MEETS FOR 5 WEEKS OF THE SEMESTER (Summer Sessions)	
Class or Lab Meets:	An instructor may withdraw a student from a course if absences exceed:
3 times a week (MTW) (evening classes)	2
4 times a week (MTWR) (day classes)	2
	Three tardies count as one absence.

If you are tardy, it is YOUR responsibility to inform me, at the end of class, so that you are not counted absent.

Make-up Policy

Make-up work for missed assignments, except where prohibited by State law or statute, will only be *considered* for those students who have notified me *prior* to the class that they will miss. Exceptions may be considered on an individual basis, but will require extraordinary circumstances.

Academic Dishonesty Policy

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://www.texarkanacollege.edu/wp-content/uploads/2014/11/Texarkana-College-Catalog-2015-2016.pdf>

Disability Act Statement

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Tonja Blaise, or go by the Recruitment, Advisement, and Retention Department located in the Administration building for personal assistance.

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.

Note:

The instructor reserves the right to change any information contained in this document, when necessary, with adequate notice given to the student. The student is responsible for any information missed due to absence.