



Syllabus: Calculus 3

Course Number: Math 2415

Instructor Information

Name: Tony Hartman

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Office Hours: See separate schedule

Textbook Information

FREE textbook! "Calculus Volume 3", Gilbert Strang, Jed Herman, et al.

Students can download a pdf version, read directly from the website, or order a print version (\$33.50).

Website: <https://openstax.org/details/books/calculus-volume-3#student-resources-section>

A solutions guide for odd numbered problems is available on the website.

Students must have a TI graphing calculator (preferably TI-89 or Inspire-CAS).

Maple software will be used extensively. Maple is available on all computers in our classroom. Students can purchase Maple at 25% discount from Maple website.

Student Learning Outcomes for the Course

1. Perform calculus operations on vector-valued function, including derivatives, integrals, curvature, displacement, velocity, acceleration and torsion.
2. Perform calculus operations on functions of several variables, including partial derivatives, directional derivatives, and multiple integrals.
3. Find extrema and tangent planes.
4. Solve problems using the Fundamental Theorem of Line Integrals, Green's Theorem, and Stokes' Theorem.
5. Apply the computational and conceptual principles of calculus to the solutions of real-world problems.

Student Requirements for Completion of the Course and Due Dates

Students should have 2 one inch, 3 hole binders. Homework is to be completed on paper and kept in a notebook. Chapter tests are taken in the classroom on paper. Maple assignments are completed on computer and submitted in the student folder. Final exams are in the classroom at the assigned date. Due dates are listed on the schedule. At the end of a chapter, a folder with homework and notes will be turned in for grading.

Student Assessment

Homework (including Maple and Notebook) – 20%

Chapter Tests – 60%

Final Exam – 20%

Grading Scale

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

See separate Schedule.

Absentee Policy

Every student is allowed 4 absences. Three tardies will count as one absence. Students may be dropped from class for excessive absences.

Make-up Policy

Homework assignments not turned in by the due date will be reduced 10% per day for each day late. Make-up tests may be taken during the last week of class before final exams. Students must send an email requesting a make-up test. Make-up tests will be taken in the Testing Center. ALL work is due by the last regular class day before final exam week.

Academic Integrity Statement

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>.

Disability Act Statement:

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Larry Andrews at 903.823.3283, 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.