

SYLLABUS
MULTIVARIABLE CALCULUS AND LINEAR ALGEBRA

TEXT – Calculus (6th ed.) by Howard Anton
Elementary Linear Algebra (7th ed.) by Howard Anton and Chris Rorres

INSTRUCTOR – Ms. Ann Chapman
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PREREQUISITES – AP Calculus BC, Gov. School Calculus I, or completion of any 2nd semester college calculus with a C or better.

COURSE OUTLINE –

Multivariable Calculus

- Vectors
- Vector-Valued Functions
- Partial Derivatives
- Multiple Integrals
- Topics in Vector Calculus

Linear Algebra

- Vectors and Matrices
- Linear Equations
- Vector Spaces
- Orthogonality
- Determinants
- Eigenvalues and Eigenvectors
- Linear Transformations
- Numerical Linear Algebra

GRADING – 9-week grades will be computed as follows:

Projects and tests	70%
Projects and quizzes	30%

Semester grades will be computed as follows:

Average quarter grade	80%
Semester final exam grade	20%

Grading Scale

90 – 100%	A
80 – 89%	B
70 – 79%	C
60 – 69%	D
below 60%	F

- ❖ Homework will be assigned daily and collected on test days. Some classwork will also be collected at that time.
- ❖ Quizzes will include take-home work. All take-home quiz work is to be done individually.
- ❖ Assignments turned in late will be penalized 10% per day. Assignments 5 days or more late will not be accepted.
- ❖ Every effort should be made to be present on test days. If you must miss a test day, be sure to bring a written note explaining the absence. All tests will be made up in class on the first day back, if you were absent on the test day only. Otherwise, tests will be made up at the earliest possible date within 5 days of returning to school.
- ❖ Students with school-excused absences or pre-arranged absences are expected to contact the instructor to make arrangements to complete missed work *before* the absence. Failure to make arrangements prior to such absences may result in a grade of zero on missed assignments.
- ❖ Work missed due to an unexpected absence should be turned in the first day back at school when circumstances permit. If not, contact me to arrange a make-up schedule. All missed work must be completed within 5 days of your return to school. It is your responsibility to ask for missed work!
- ❖ Assignments will include group work. When these assignments require you to turn in individual work, you should discuss the assignment with the other members of your group, but complete the problems on your own.

ATTENDANCE AND PARTICIPATION – Regular attendance is necessary for successful completion of this course. This course involves in-class projects and discussion, so class participation is essential.

OFFICE HOURS: 9:00 – 11:00 a.m., 12:00 – 12:50 p.m., and by appointment.