



MULTIVARIABLE CALCULUS

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

Multivariable Calculus is a rigorous second year course in college level calculus. This course provides an in-depth study of vectors and the calculus of several variables for the student who has successfully completed Calculus BC. The successful student will bring to the course a solid understanding of the concepts of first-year calculus as well as the ability to approach complex problems and applications with insight, imagination, and persistence. Major topics will include vector operations and analysis, functions of two or more variables and their partial derivatives, multiple integration.

COURSE OBJECTIVES

Students should:

- understand and describe patterns and functional relationships.
- represent and analyze quantitative relationships in a variety of ways.
- use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.
- use spatial reasoning, location and geometric relationships to solve problems.
- develop and apply units, systems, formulas and appropriate tools to estimate and measure.

UNITS OF STUDY

- Vectors and the Geometry of Space
- Vector Functions
- Partial Derivatives
- Multiple Integrals

COURSE POLICIES AND REQUIREMENTS

GRADING

Summative Assessments: Insert % Here (Minimum of 70%).
Insert Categories/Weighting (ie. Papers – 30%)

Formative Assessments: Insert % Here (Maximum of 30%).
Insert Categories/Weighting (ie. Quizzes – 50%)

Behavioral Characteristics: Insert % Here (Maximum of 10%)
Insert Categories/Weighting (ie. Particip. - 90%)

Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

Insert Course Expectations Here

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here