MATH 283 - Calculus III (4 Credits)

DESCRIPTION:

Topics include vectors, differentiation and integration of vector valued functions, multivariable calculus, partial derivatives, multiple integrals, and applications. Prerequisite: Math 182 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

TEXT:

Thomas' Calculus, Multivariable, 12th Edition; Thomas, Weir, Hass
NOTE: Full-time instructors have the right to use no text or a different text.

OUTLINE:

To be announced in class.

OUTCOMES:

a. Perform operations on vectors.
b. Differentiate and integrate vector-valued functions.
c. Analyze functions of several variables.
d. Perform partial differentiation.
e. Evaluate double and triple integrals.
f. Analyze vector fields.
g. Apply and extend all concepts.

EVALUATION:

Grades will be determined by student performance in one or more of the following areas: in-class tests, take-home tests, homework assignments, quizzes, special projects, papers, attendance, and class participation. Degree of importance and types of assessment used will depend on the instructor.

This course satisfies or partially satisfies the Math component of a degree or certificate program at CSN.

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