

Department: Mathematics

Course No: MATH 112Q

Title: Introductory Calculus 1

Credits: 4

Contact: David Gross

WQ: Q

Catalog Copy: MATH 112Q. Introductory Calculus1. Either semester. Four credits. Four class periods. Recommended preparation: MATH 101 or the equivalent. Students cannot receive credit for MATH 112 and either MATH 115 or 120. Students who have not passed the Calculus Readiness Test take this course rather than MATH 115 or 120. Limits, derivatives, and extreme values of algebraic functions, with supporting algebraic topics.

Course Information:

- a: The course goals and objectives remain unchanged. That is to have a calculus sequence designed for those whose precalculus skills are not at a level to handle the more mainstream calculus sequence Math 115, 116.
- b: The format of the course will likewise remain the same: a few exams including a gateway exam, quizzes and projects, and a final exam.
- c: Topics include: Limits, derivatives, and extreme values of algebraic functions, with supporting algebraic topics.

Q Criteria : The course include mathematics at or above the basic algebra level as an integral part of the course which is used throughout the course. The course included the use of basic algebraic concepts such as: formulas and functions, linear and quadratic equations and their graphs, systems of equations, polynomials, fractional expressions, exponents, powers and roots, problem solving and word problems. The course require the student to understand and carry out actual mathematical manipulations and use them in order to draw conclusions

Role of Grad Students: Presently, during the on semester, graduate student assistants teach only discussion sections while a faculty member gives the lectures. However, during the off semester, graduate student assistants can teach sections by themselves under the supervision of a faculty course coordinator.