OBJECTIVES: This course is designed for students who intend to take calculus and who do not yet possess complete mastery of such precalculus topics as: functions and graphs; exponential, logarithmic, and trigonometric functions; inverse functions; conic sections; systems of linear equations. Students who do not intend to take calculus and who desire algebra review in preparation for work in statistics or other quantitative studies (such as BSNS 2120, Quantitative Business Methods) are advised to take GEN 1135, College Algebra, instead of MATH 1100. Note: A student may not earn more than 4 credits toward graduation by taking more than one of GEN 1135, GNM 1157, and MATH 1100.

COURSE CONTENT: Review of algebra and coordinate geometry. Functions and graphs. Trigonometric, logarithmic, and exponential functions.

PREREQUISITE: GNM 1125 or high school algebra (two years) and geometry. Not open to students who have completed MATH 2215 or Math 2225 (Discrete Math)

CLASS FORMAT: Lecture.

READINGS: Faires and DeFranza, Precalculus (Brooks-Cole, 2000).
PREREQUISITE: Current mastery of the material in a good high school Algebra II course or a college "Precalculus" course (such as Stockton's MATH 1100 course). If you need extensive algebra review, take MATH 1100.

OBJECTIVE: First course of the basic three-term calculus sequence, but also appropriate for students wishing to take only two semesters of calculus.

COURSE CONTENT: Functions and their graphs, limits, derivatives and their applications, introduction to integration, and trigonometric, exponential, and logarithmic functions.

ATTENDANCE: Mandatory.

CLASS FORMAT: Lecture.


EVALUATION: Quizzes and examinations.
COURSE OBJECTIVES: To learn basic ideas of calculus like limits, derivatives and integrals and also look at some interesting applications of these ideas in areas of natural sciences and also fields like economics.

COURSE CONTENTS: Chapters 1, 2, 3, 4 and 5

PREREQUISITES: A grade of C or better in Precalculus or 2 years of high school algebra and trigonometry.

ATTENDANCE: Mandatory

CLASS FORMAT: Lectures, discussions and students participation-doing problems on the blackboard!

TEXTBOOK: *Calculus by Larson and Hostetler 7th edition*

CALCULATOR: Expected to have at least a scientific calculator but definitely not a symbolic one like ti-89 or ti-92 check with me in the first week of classes if the calculator you have is appropriate.

EVALUATION: Problem sets or quizzes, homework sets, tests and a comprehensive final examination.
MATH 2215-501
Calculus I
Suzanne Nezzar
MTWR 11:30AM-2:30PM
Q1
Summer E 2006

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