PREPARATION: Successful completion of Geometry A or H, Functions H, and Pre-Calculus H

This course involves a comprehensive study of differential and integral calculus. The concepts of limits and continuity are analyzed as the basis for the study of the calculus. A balance is maintained between theory, applications, and manipulative techniques. Included are the concepts of differentiation of elementary and transcendental functions, differentials, and the definite integral, techniques of integration, series and differential equations. The BC syllabus of the Advanced Placement Examination is satisfied and students are expected to take the AP exam.