

**Course Title: Advanced Placement Chemistry \* 2003370(Y)**

*Prerequisite: B or higher in both Algebra II Honors and Chemistry I Honors and recommendation.*

*Students are strongly encouraged to either have completed Physics I Honors or be concurrently enrolled.*

*Likewise, students are strongly encouraged to be enrolled in a math class beyond Algebra II Honors, preferably Pre-Calculus or Calculus.*

The primary objectives of this *college level* course are to prepare the student to earn college credits for chemistry and chemistry lab, seek appropriate placement in college chemistry courses, and encourage further study in the sciences at the college level. To this end, all AP Chemistry students are expected to work toward passing the AP Exam with as high a score as possible. Good attendance is mandatory. To accomplish the required laboratory work, it is necessary to meet at least once a week after school for 1 to 3 hours. The course content includes structure of matter, states of matter, chemical bonding theories, intermolecular forces, gas laws, chemical reactions, solution chemistry, advanced stoichiometry, chemical kinetics, equilibrium, acid-base chemistry, thermochemistry, thermodynamics, electrochemistry, nuclear chemistry, descriptive chemistry, and introduction to organic chemistry.