

Science Requirement Opportunities!

9th Grade:

Biology A/B

10th grade Options:

1. Chemistry A/B or
2. Physical Science A/B

11th Grade Options – Choose at least ONE:

1. Physics A/B
2. AP Chemistry A/B
3. Physical Science or Chemistry (Depending on your 10th grade course)
4. Zoology A/B or Anatomy A/B every other year rotation
5. One-year attendance in an ACATEC Program

More about Chemistry!

Key Topics:

energy and matter	atomic structure
physical & chemical changes	periodic table
chemical bonding	nomenclature
chemical reactions	mole
stoichiometry	gas laws
solutions	enthalpy
equilibrium	oxidation-reduction
acid-base chemistry	

Prerequisite: Students should be proficient in **Algebra I** to be successful in this course.

Why take Chemistry: If you need it in college, take it! Are you thinking about a science major, forensics, chemist, pharmaceutical, chemical engineer or medicine? If you're sharp with numbers, fascinated by the chemical elements that make up the world around you, and not afraid of challenging course requirements, then you should consider a degree in chemistry. Do you want to take AP Chemistry?

More about Physics!

Key Topics:

constant velocity motion
 accelerated motion
 forces & energy
 complex mathematical equations
 Inquiry-based investigation
 model development

Prerequisite: **Algebra 2** or taken concurrently, successful completion of Biology A/B and Chemistry A/B, instructor recommendation.

Why take Physics: If you need it in college, take it! Thinking about a career as an analysis, physicist, astronomy, or a researcher? Physics degree recipients graduate with highly marketable skills in math, data analysis and predictive modeling, often finding lucrative employment in the business world.

More about Physical Science!

Key Topics:

the scientific process	investigations	waves
data analysis	earth's systems	using evidence to draw conclusions
wave interactions	force and interactions	energy
energy	matter	force
earth's place in the universe	impact of human activity on earth's systems	

Why take Physical Science: If you need it in college, take it! The four main branches of physical science are astronomy, physics, chemistry, and the Earth sciences, which include meteorology and geology.