All science courses are laboratory courses.
The following courses comprise the core curriculum in Science:
Available in a Science and Technology Center only:
BIOLOGY S/T
CHEMISTRY S/T
PHYSICS S/T
ORGANIC CHEMISTRY/BIOCHEMISTRY S/T
GEOLGY S/T
ASTRONOMY
FORENSIC SCIENCE
GENETICS

The following courses are available in a Science and Technology Center only:
Astronomy
This course is designed to meet the needs of students interested in astronomy who have not taken a course in the Earth Sciences. The course is an activity oriented, hands-on, investigative program, which will train students in the skills necessary to study the sky. Large numbers of “daytime” astronomy activities are woven into the program. Regular laboratory and student research projects are planned for the program.

Forensic Science
This one semester course is an interdisciplinary science that draws from Biology, Chemistry, and Earth Science concepts. It is recommended that students have successfully completed those three courses prior to enrolling in Forensic Science.

Genetics
This course is designed to meet the needs of students, who have already taken a course in biology, by extending their knowledge of genetics. The course is an activity oriented, hands-on, investigative program, which will train students in the skills necessary to study the cellular mechanisms of inheritance. Regular laboratory and student research projects are included in the program. Topics include: Cellular reproduction, complex traits, DNA structure and replication, (gene function, mutation, engineering, and protein therapy), the human genome project, population genetics, and human origins.

Organic Chemistry/Biochemistry S/T
This course deals with the characteristics, molecular bonding, synthesis and reaction of most classes of organic compounds. The synthesis and metabolism or biochemical compounds are also included. There is a major concentration in the laboratory on the syntheses, purification, and verification of structure of organic compounds using classical and instrumental means. The course culminates with a major individualized student directed laboratory analysis of an unknown compound. (M)

Geology S/T
This course will include the study of the composition and formation of the earth’s crust including a study of geomorphology, geochemistry, and geophysics. (M)

Biology S/T
This course will cover the scientific principles involved in the growth, development and interactions of living things. It will stress independent research and open-ended experimentation. Career study in biology will also be included. (M)

Chemistry S/T
This course covers basic chemical theory and principles. In addition to descriptive chemistry and practical applications, career study in chemistry will also be stressed. (M)

Physics S/T
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This course will examine the scientific principles relating to matter and energy found in classical physics. In addition, the course will include an introduction to Special Relativity. Career study in physics will also be stressed. (M)
Fine Arts (F) Certificate of Merit (M) Technology Education (T) Advanced Technology Education (ATE)
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