



CLIFTON HIGH SCHOOL

STEM ACADEMY

NATURAL SCIENCES CONCENTRATION

Description and General Information

The Natural Sciences Concentration within the STEM Academy is designed for high achieving math and science students. Students will acquire advanced foundational knowledge and skills that will prepare them for advanced level coursework following high school. Students will have an opportunity to earn more than 24 college credits through a wide range of available Advanced Placement classes. Additionally, students will have the opportunity to take part in a senior year internship and guest speaker lectures designed to further develop their understanding of how the knowledge they are developing is being applied in the real world. Upon graduation, students will receive a certificate of completion. Possible careers related to this sequence are Physician, Biologist, Botanist, Physicist, Chemist, and Chemical Engineer among others. Students will be placed with a mentor/adviser from the Science department to monitor and guide their progress through the STEM Academy. Students in the STEM Academy will have access to the STEM Lab in A5.

Course Schedule

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English I Honors	English II Honors	English III Honors	English IV AP
World History Honors	US History I (H or AP)	US History II (H or AP)	Graphic Design
Physical Education	Physical Education	Physical Education	Physical Education
World Language I	World Language II	World Language III	World Language IV AP
Lunch	Science Study Hall / Advising	Science Study Hall / Advising	Lunch
Math Conn 4 Honors or Algebra II-9 Honors	Geometry Honors or Geometry Acc	Pre-Calculus Acc Honors or Pre-Calculus Honors	Calculus AP or Calculus Honors or Statistics AP
Biology Honors	Chemistry Honors	Physics Honors	Physics AP or Environmental Science AP
Personal Finance	Biology AP	Chemistry AP	Internship

- Web Design - will be offered either online or after-school through PCCC

*Prerequisite: Algebra I in 8th grade

Associated extra-curricular clubs

National Science Honor Society
Knights of Pythagoras Club
STEM Club
Pre-Med Club
Physics and Electricity Club
Language Club (based on world language class taken)

Application

Applicants must have all prepared documents and application submitted by the application deadline in order to be considered for acceptance into the program for the following school year. Interviews will only be scheduled for those students who have completed all required paperwork and have met the eligibility requirements.