

STEM ACADEMY COURSE SEQUENCE

STEM PATHWAYS		10 TH GRADE	11 TH GRADE	12 TH GRADE
All STEM Pathways		English 10 Math Science World History 2 Wellness * World Language * Fine Arts* Computer Requirement* School to Career*	English 11 Math Science US History Wellness * World Language* Fine Arts* Computer Requirement* School to Career*	English 12 Wellness * World Language* Fine Arts* Computer Requirement* School to Career*
Life Science	Required Courses Option 1	Biological Systems and Ecology	Physics	Chemistry
	Required Courses Option 2	Physics	Chemistry	
	Science Electives	Zoology; Animal Behavior; Allied Health and Science Career Exploration; Biochemistry of Foods and Nutrition; AP Biology; Anatomy and Physiology		
Health Science	Required Courses Option 1	Biological Systems and Ecology	Physics	Chemistry
	Required Courses Option 2	Physics	Chemistry	Anatomy and Physiology
	Science Electives	Medical Terminology; Zoology; Allied Health and Science Career Exploration; Biochemistry of Foods and Nutrition; AP Biology; Human Biology		
Engineering and Physical Sciences	Required Courses Option 1	Biological Systems and Ecology	Physics	Chemistry
	Required Courses Option 2	Physics	Chemistry	
	Science Electives	CAD; Robotics; AP Physics; AP Chemistry; Introduction to Engineering I; Introduction to Engineering II; AP Computer Science		
Earth and Environmental Sciences	Required Courses Option 1	Biological Systems and Ecology	Earth Science	Chemistry
	Required Courses Option 2	Earth Science	Chemistry	
	Science Electives	Physics; Environmental Science; Introduction to Oceanography; Meteorology; Introduction to Astronomy; AP Biology; AP Physics		

PATHWAYS		10 TH GRADE	11 TH GRADE	12 TH GRADE
Mathematics Majors	Required Courses	Geometry and Algebra II	Pre-Calculus	Calculus and choice of AP Statistics or AP Computer Science
	Electives	Creative Software Solutions; Adventures in Mathematics		Internship
Computational Thinking	Required Courses	Geometry	Algebra II or Pre-Calculus	AP Computer Science and choice of Pre-Calculus or Calculus or AP Statistics
	Electives	Robotics; Introduction to Programming Languages		Internship

* 1 Credit of Wellness; 1 Credit of Foreign Language or Fine Arts; .5 Credit of Computer Class; 1 Credit of School-to Career. Six Academy Classes Required