

MVHS SCIENCE & TECHNOLOGY MAGNET PATHWAYS

Science and Technology has **10** areas of interest, choose one to start building a **Personalized Pathway**

DISCOVERY

Find your passion within a specific area of interest.

GROWTH

Transform your passion through related classes within the same magnet.

INNOVATION

Expand your passion by integrating courses from both magnets to create new connections.

All Pathways lead to **MVP CAPSTONE**

SCIENCE	Chemistry	Physics	Biology	Complementor Courses/ **Pathways
Recommended (Grades 9+)	Chemistry (H)	Physics	Lab Bio	** Data ** Athletic PE ** Patient Care ** Biomedical ** Engineering
Concentrator (Grades 10+)	AP Chemistry	AP Physics	Anatomy Physiology	AP Environ Sci. Astronomy
Capstone (Grades 11+)	Food Chemistry	AP Physics 2	AP Bio	

MATHEMATICS (IM 1&2 are prerequisites)	Data	STEM +	STEM	Applied Math	Complementor Courses/ **Pathways
Concentrator (Grades 10+)	Intro to Data Science	IM 3	IM 3	IM 3 <i>or</i> Financial Alg. <i>or</i> Data Sci.	** Art (2D & 3D) ** Music Comp. ** Comp Science ** Engineering
		Math Analysis	Math Analysis		
Capstone (Grades 11+)	AP Stats	Discrete <i>or</i> AP Stats	AP Stats <i>or</i> AP Calc AB/ BC	Discrete Math	AP CSP Physics

HISTORY	Cultural Studies	Criminology	Complementor Courses/ **Pathways
Recommended (Grades 9+)	AP Human Geography	AP Human Geography	** Graphic Design ** Photography ** TV/ Film ** Journalism ** Speech and Debate
Concentrator (Grades 11+)	Socio-Political History of Rock and Roll	AP Psychology Film Studies AP Art History AP Enviro Science
Capstone (Grades 11+)	Ethnic Studies	Criminology/ Street Law	

BIO MEDICAL (PLTW)	Pathway Classes	Complementor Courses/ **Pathways
Introductory (Grades 9+)	PBS (H)	** Dance ** Athletic PE ** Patient Care ** Computer Science
Concentrator (Grades 10+)	HBS (H)
Capstone (Grades 11+)	Med Intv. (H)	Data Science Statistics AP Biology Spanish Physics
Capstone (Grades 11+)	Biomed Innovation (H)	

COMPUTER SCIENCE (CTE)	Pathway Classes	Complementor Courses/ **Pathways
Introductory (Grades 9+)	CS 1	** Graph. Design ** Creative Writing ** Art (2D & 3D) ** Music Composition ** Theater ** Speech & Debate
Concentrator (Grades 10+)	AP Comp Sci.
Capstone (Grades 11+)	Game Programming <i>and/or</i> Web Programming	AP CSP Data Science PLTW Digital Electronics Financial Alg.

WORLD LANGUAGE	Spanish	Spanish for Native Speakers	French	Complementor Courses/ **Pathways
Introductory (Grades 9+)	Spanish 1, 2	Spanish for Native Speakers 1	French 1, 2	** Music Composition ** Comp Science
Concentrator (Grades 10+)	Spanish 3, 4	Spanish for Native Speakers 2	French 3, 4/AP	AP Art History AP Human Geography
Capstone (Grades 11+)	Seal of Biliteracy / AP exam	Seal of Biliteracy / AP exam	Seal of Biliteracy / AP exam	

PATIENT CARE (CTE)	Pathway Classes	Complementor Courses/ **Pathways
Recommended (Grades 9+)	Lab Bio	** Bio Medical ** Speech & Debate
Concentrator (Grades 10+)	Patient Care 1	Data Science APCSP Spanish Financial Alg.
Capstone (Grades 11+)	Patient Care 2	

ENGINEERING (PLTW)	Pathway Classes	Complementor Courses/ **Pathways
Introductory (Grades 9+)	Intro to Eng. (H)	** Art (2D & 3D) ** Music Composition ** Computer Science
Concentrator (Grades 10+)	Princ. of Eng. (H)	Financial Algebra TV/ Film AP Art History Film Studies
Capstone (Grades 11+)	Aerospace Engin. (H) <i>and/or</i> Digital Electronics	

LEADERSHIP	ASB	Care & Connection	AVID	Complementor Courses/ **Pathways
Recommended (Grades 9+)		PLUS	AVID 9	** Choir ** Stage Tech ** TV/ Film ** Speech & Debate
Concentrator (Grades 10+)	ASB Leadership 1	Link Crew	Avid 10 Musical Theater Yearbook
Capstone (Grades 11+)	ASB Leadership 2	College Apps	AVID 11/12	

PHYSICAL EDUCATION	Fitness & Weights	Movement	Athletic	Complementor Courses/ **Pathways
Recommended (Grades 9+)	Beginning	Yoga	Team Sports	** Human Wellness ** Dance Science ** Athletic Training ** Patient Care ** PLTW
Concentrator (Grades 10+)	Intermediate	Aerobic	Fitness PE
Capstone (Grades 11+)	Advanced	Fitness PE	Athletic PE	Food Chemistry

WHERE WILL YOUR PATH LEAD YOU?

Mission Vista High School students will choose **17** classes in addition to the 15 required classes.

