

Engineering

STEM Academy

Located at Northwest High School

The STEM Academy aligns with the Engineering Program of Study.

STEM Academy: Bring your ideas to life while designing, building, and testing solutions for complex engineering challenges.

Potential Careers: App Developer, Energy Auditor, or Geospatial Information Technologist
(Find more potential careers on the NISD CTE website at www.nisdtx.org/cte.)

Recommended Course Sequences				
	9th Grade	10th Grade	11th Grade	12th Grade
Science	STEM Honors Biology (SC.25H/AC)	STEM Honors Chemistry (SC.27H/AC)	STEM OnRamps Physics (D92OR/AC)	Advanced Science
Math	STEM Honors Geometry (M.112H/AC)	STEM OnRamps Algebra II (D94OR/AC)	Honors/AP Precalculus or OnRamps Precalculus	AP Calculus AB or BC
English	STEM Honors English I (ELA.1H/AC)	STEM Honors English II (ELA.2H/AC)	STEM OnRamps English III (D91OR/AC)	STEM English IV (0024/AC) or STEM English IV AP (ELA.2A/AC) or DC Technical & Business Writing (CT.D90025)
PLTW Academy Courses	Engineering Design Process (1 credit)	Engineering Design & Presentation (1 credit)	<ul style="list-style-type: none"> • Aerospace Design I or • Civil Engineering I or • Digital Electronics or • Advanced Eng Des Presentation (2 credits) 	Engineering Design and Problem Solving (1 credit)
Optional STEM Courses	Honors Computer Science I (LOTE) (CT.849/AC) (1 credit)	Honors Computer Science II (LOTE) or Foundations of Cybersecurity	Honors Computer Science III or Foundations of Cybersecurity or Scientific Research and Design STEM	Practicum in Engineering or CTE Project Based Capstone STEM