

STEM Program



The Institute of Science & Technology (IST) building offers opportunities in science, technology, engineering, and mathematics (STEM). Students can choose or customize a career pathway from the courses below. See the [STEM website](#) for more information.

Pathway	9th Grade	10th Grade	11th Grade	12th Grade
Engineering & Technical Sciences				
Engineering	Computer Aided Design ■▲	Engineering Design ■▲	Architectural Drawing	Senior Project *
Robotics	Intro Comp Programming (sem) ■ Intro to Robotics (sem)	Robotics (Intermediate)	Robotics and Electromechanical Design	Senior Project *
Automotive Technology	Consumer Automotive	Automotive Tech 1 ▲	Automotive Tech 2 ■▲	Automotive Tech 3 ■▲
Aviation	Intro to Aviation	Aviation	Aviation Technology	Aviation Fundamentals ♦ Senior Project *
Arts & Technical Communications				
AV Broadcasting/Film	Video Production 1 (sem) Filmmaking (sem)	Broadcast Journalism "OTV"	Advanced Video Production	Senior Project *
3D Graphics & Design	Web Design 1 (sem) Web Design 2 (sem) ■	Graphic Design 1 (sem) Graphic Design 2 (sem)	AP Studio Art 2D ● AP Studio Art 3D ●	Senior Project *
Health Sciences				
Health Sciences	Exploring Health Sciences	Principles of Health Science ▲	Advanced Health Science	Nurse Aide Certification Course ▲
Biotechnology	Intro to Science Research	Applied Science Research Forensics	Biotechnology ■	Senior Project * Anatomy & Physiology ■
Computer Science & Applied Mathematics				
Computer Science Pathways	Intro Comp Programming (sem) ■ Intro to Robotics (sem)	AP Comp Science Principles ●	AP Computer Science A ●	App Development (sem) Algorithms & Data Structures (sem)
	AP Comp Science Principles ●	AP Computer Science A ●	App Development (sem) Algorithms & Data Structures (sem)	Senior Project *
Applied Mathematics	AP Comp Science Principles ●	AP Computer Science A ●	AP Calculus AB ● AP Calculus BC ●	AP Stats ●, Calc 3/Diff Eq ■, Linear Alg. Senior Project *

CAREER CONCENTRATIONS