

Cherokee Trail High School
 Career Pathway Plan of Study
Science, Technology, Engineering, Math (STEM)



Career Path Courses

9th: Pre-Engineering 1, Pre-Engineering 2, Computer Aided Design, Medical and Sustainable Technology, Graphic Design 1, Computer Applications

10th: Manufacturing Production, Robotic Technology, Engineering Design, Architectural Design, Multimedia 1 & 2, Web Page Design 1 & 2, Intro to Computer Programming 1 & 2, Graphic Design 2 & 3

11th: IB Design Technology HL 1, AP Computer Science, Aviation Technology**, Automotive Technology 1**

12th: Senior Projects, IB Design Technology HL 2, Executive Internship**, Automotive Technology 2**, Aviation Fundamentals**

Core Academic Classes

9th: English 9 (Pre-AP, Pre-IB), World Geography (Pre-AP, AP), Algebra 1 or higher, Biology (H), World Language

10th: English 10 (Pre-AP, Pre-IB), Government/Economics (AP), Geometry or higher, Chemistry (H, AP), World Language

11th grade: English 11 (AP, IB, H), US History (AP, IB, CE), Algebra 2 or higher (AP, IB, CE), Physics (AP, IB), World Language

12th grade: English 12 (AP, IB, CE), Senior Social Studies (AP, IB), College Algebra or higher (AP, IB, CE), Senior Science (AP, IB,)

AP=Advanced Placement, IB= International Baccalaureate, CE= Concurrent Enrollment. *All CTHS core pathways meet college admission standards.*

Other Electives to Consider

Health ±

Wellness and Fitness

Computer Applications

Personal Finance

Additional Science

AP Statistics

± Required course for graduation.

Potential Career Pathways: *Engineers, Information Technology, Mathematician, Scientist, Network, Programming and Software development.*

Employment Outlook: Given the critical nature of much of the work in science, technology, engineering and mathematics, job possibilities abound even in times of economic downturn. More scientists, technologists and engineers will be needed to meet environmental regulations and to develop methods of cleaning up existing hazards. A shift in emphasis toward preventing problems rather than controlling those that already exist, as well as increasing public health concerns, also will spur demand for these positions.
 Source: Naviance 2018

Additional Information

College Credit:

*Courses offer college credit through **Concurrent Enrollment, AP, or IB**

CTE Courses :

** Courses are offered through the CCSD CTE program and are off-campus.

Student Organizations:

Technology Student Association (TSA)

Post-graduation options that lead to careers in this Cluster:

World of work, Associates Degree (AA), Bachelor's Degree (BA), Master's Degree (MA), and Doctorate



Standardized Testing: Suggested Benchmarks

SAT	ACT	Accuplacer
ELA: 480	English 18	SS 95
Math: 530	Reading 22	RC 80
	Math 22	Math 85