



Within the requirements of the 26 credits to earn an endorsement, including Algebra II, chemistry, and physics, a student must complete one of the following course areas below to meet the STEM endorsement criteria.

A

Career and Technical Education (CTE)

A coherent sequence of courses for four or more credits in CTE that includes at least two courses in the same career cluster in **Table 1**, including at least one **advanced** CTE course (designated with **A**); and the final course in the sequence from the CTE career cluster courses from **Table 2**.

Table 1

Agriculture, Food, and Natural Resources		Law, Public Safety, Corrections & Security	
Principles of Agriculture, Food, Natural Resources 9-10	1	Forensic Science A 11-12	1
Veterinary Medical Applications A 11-12	1	Manufacturing	
Landscape Design & Management 9-12	.5	Welding I A 12	2
Agricultural Mechanics & Metal Technologies A 11-12	1	Science, Technology, Engineering, & Mathematics	
Floral Design II (Advanced Floral Design) A 12	1	Engineering Design & Presentation I A 11-12	1
Practicum in Agriculture: Vet Med Assistant A 12	1	Honors Scientific Research & Design A 10-12	1
Architecture & Construction		Honors Scientific Research & Design II A 11-12	1
Architectural Design I A 11-12	1	Honors Scientific Research & Design III A 11-12	1
Architectural Design II A 12	2	Gateway to Technology PLTW 8 (high school elective credit)	.5
Health Science		Introduction to Engineering Design PLTW 9-10	1
Principles of Health Science 10-12	1	Engineering Science PLTW A 10-12	1
Medical Terminology A 9-12	1	Aerospace Engineering PLTW A 11-12	1
Pharmacology A 12	1	Digital Electronics PLTW A 11-12	1
World Health Research A 11-12	1	Engineering Design and Development PLTW A 12	1
Health Science: Theory and Clinical A 11-12	2	Engineering Design & Problem Solving A 12	1
Practicum in Health Science A 12	2	Transportation, Distribution & Logistics	
Anatomy & Physiology A 11-12	1	Automotive Technology I: Maintenance & Light Repair 11-12	2
Hospitality & Tourism		Automotive Technology II: Automotive Service A 12	2
Food Science A 11-12	1	Collision Repair 11-12	2
Information Technology		Paint and Refinishing A 12	2
Internetworking Technologies I-Cisco A 11-12	1		
Internetworking Technologies II-Cisco A 12	1		

Table 2

Science, Technology, Engineering, & Mathematics		Career Preparation I or II A 11-12 with Extended Career Prep (if the course addresses a career from a field listed among the career clusters in this table)	
Engineering Design & Presentation I A 11-12	1		
Honors Scientific Research & Design A 10-12	1		
Honors Scientific Research & Design II A 11-12	1		
Honors Scientific Research & Design III A 11-12	1		
Engineering Science PLTW A 10-12 (formerly POE)	1		
Digital Electronics PLTW A 11-12	1		
Engineering Design & Problem Solving A 12	1		
		Project-Based Research A 11-12 (if the course addresses a career from a field listed among the career clusters in this table)	
		1	

A - Advanced

Science Credit

Math Credit

Meets Health Graduation Requirements

B

Computer Science

A coherent sequence of four credits in computer science selected from the following:
 Computer Science I; Computer Science II; Computer Science III;
 AP Computer Science; IB Computer Science SL or HL;
 Game Programming and Design

C

Math

Three credits in mathematics including Algebra II and two additional math courses for which Algebra II is a prerequisite (for a total of 5 math credits)

	Credit 1	Credit 2	Credit 3	Credit 4		Credit 5
	Algebra I -or- Algebra I Honors	Geometry -or- Geometry Honors	Algebra II -or- Algebra II Honors	<ul style="list-style-type: none"> • Precalculus or Precalculus Honors • AQR • MIS • AP Computer Science • AP Calculus AB (must be taken after Precalculus) • AP Calculus BC (must be taken after Precalculus) • AP Statistics (must be taken after or concurrently with Precalculus) 		
IBHL	Algebra I Honors -or- Algebra I IH	Geometry Honors -or- Geometry IH	Algebra II IH	Precalculus IH	Math HL Year I (BC Calculus)	Math HL Year 2
IBSL	Algebra I Honors -or- IH	Geometry Honors -or- IH	Algebra II -or- Algebra II IH	Precalculus -or- Precalculus IH	Math SL	

**if in the IB program, must also satisfy requirements of the IB diploma*

D

Science

Four credits in science, including chemistry, physics, and two additional science courses (for a total of 5 science credits)

	Credit 1	Credit 2	Credit 3	Credit 4	Credit 5
	Biology -or- Biology PreAP	Chemistry -or- Chemistry PreAP	Physics or Physics PreAP , and any two courses selected from: <ul style="list-style-type: none"> • Anatomy and Physiology • AP Biology (1.5 AP Biology + 0.5 Honors Research & Design) • AP Chemistry (1.5 AP Chemistry + 0.5 Honors Research & Design) • AP Physics 1/2 • AP Physics C • Engineering Design and Problem Solving • Environmental Systems • AP Environmental Science • Honors Scientific Research and Design • Food Science • Forensic Science • Principles of Engineering (PLTW) 		
IB	Biology IH	Chemistry IH	Physics, IB Physics SL -or- Physics Pre-AP	Any two courses selected from— IB Physics HL IB Biology SL IB Biology HL IB Chemistry SL IB Chemistry HL Environmental Systems SL	

E

Combination

In addition to Algebra II, chemistry, and physics, a coherent sequence of three additional credits from no more than two of the categories above.

It is the policy of Plano ISD not to discriminate on the basis of race, color, national origin, gender, or handicap in its programs, services, or activities, including vocational programs. Lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. Plano ISD will take steps to ensure cost will not prevent access to programs.

All courses may not be offered on every campus. Check with campus counseling department for more information.