



P-TECH 4-year Plan
[Electro Mechanical Technology AAS](#)
 Degree Plan Code: AAS.EEM.ELEC.MECH

School Information

ISD:	<u>Garland</u>	Plan Last Updated:	<u>7/26/23</u>
Early College Program:	<u>South Garland P-TECH</u>	Catalog Year:	<u>2023-2024</u>
Dallas College:	<u>Eastfield</u>	Graduation Year:	Class of 2027

Career Information

Degree Pathway: [Electro Mechanical Technology AAS](#)
 HS Plan: [STEM: Renewable Energy and Manufacturing: Advanced Manufacturing & Machinery Mechanics](#)
 Certificate: C1: [Mechatronics Technology](#) C2: [Electronics Technology](#)

High School Courses

9 th Grade - Cohort	
English I H (10113 A/B)	Algebra I H (21213 A/B) or Algebra II H (21233 A/B)
AP Human Geography (42133 A/B)	Biology H (33113 A/B)
AVID I (A9846 A/B)	Health/PE
10 th Grade - Cohort	
English II H (10123 A/B)	Algebra II H (21233 A/B)
Chemistry H (33213 A/B)	or Geometry (Accelerated Geom 21411S – 1 sem/1 credit)
Language Other Than English	or Geometry (21413 A/B)
AVID II (A9847 A/B - Recommended)	
11 th Grade	
Economics (42415S)	Geometry (Accelerated Geom 21411S – 1 sem/1 credit)
Language Other Than English	or Geometry (21413 A/B)
US History	US Government
US Physics	AVID III (A9848 A/B - Recommended)
12 th Grade	
English IV (10142)	AVID IV (A9849 A/B - Recommended)
4 th Science	

College Courses

9 th : Fall Semester	Spring Semester
CETT 1403 – DC Circuits C2, AAS (80255A – AC/DC Electronics 13036800) CTE Level 2 – Renewable Energy	CETT 1405 – AC Circuits C2, AAS (80255B – AC/DC Electronics 13036800) CTE Level 2 – Renewable Energy
8M145A Manufacturing Engineering Tech I (13032900) HS only CTE Level 2 – Manufacturing	EECT 1104 – Electronic Soldering AAS, C1, C2 (8M145B Manufacturing Engineering Tech I 13032900) CTE Level 2 – Manufacturing
	Total Credit Hours: 9
10 th : Fall Semester	Spring Semester
CETT 1425 – Digital Fundamentals C2, AAS (80405A – Solid State Electronics 13036900) CTE Level 3 – Renewable Energy	ELPT 1455 – Electronic Applications C2, AAS (80405B – Solid State Electronics 13036900) CTE Level 3 – Renewable Energy
(80265A Applied Math for Technical Professionals 12701410) CTE Level 4 – Renewable Energy	EECT 1191 – Special Topics in Electrical, Electronic & Comm. Engineering AAS, C1, C2 (80265B Applied Math for Technical Professionals 12701410) CTE Level 4 - Renewable Energy

	Total Credit Hours: 9
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11 th : Fall Semester	Spring Semester
ENGL 1301 – Composition I (10505A – English Lang & Comp DC 03220300)	*ENGL 1302 – Composition II (10505B – English Lang & Comp DC 03220300)
SPCH 1311 – Intro to Speech (10311S – Comm Applications 03241400)	MATH 1332 – Contemporary Math (21503S – AQR DC 03102510)
MUSI 1306 – Music Appreciation (66269S – Music Appreciation 0315560 1 sem/1 credit)	PSYC 2301 – General Psychology (42323S – Psychology DC 03350100)
CETT 1441 – Solid State Circuits (80415S – Project Based Research 12701500 double block) CTE Level 4 – Renewable Energy	(Total Credit Hours: 22)

12 th : Fall Semester	Spring Semester
ELMT 1405 – Basic Fluid Power AAS & C1 (80345A - Manufacturing Engineering Tech II 13032950) CTE Level 3 – Manufacturing	MFGT 1406 – Mechanical Principles in Automated Manufacturing AAS & C1 (80345B - Manufacturing Engineering Tech II 13032950) CTE Level 3 - Manufacturing
ELPT 2419 – Programmable Logic Controllers I AAS & C1 (8M315A – Programmable Logic Controllers N1303689) CTE Level 2 – Manufacturing	*ELPT 2455 – Programmable Logic Controllers II (8M315B – Programmable Logic Controllers N1303689) CTE Level 2 – Manufacturing
MFGT 1404 – Automated Manufacturing AAS & C1 (8M475A – Practicum in Manufacturing 13033000 CTE Level 4 – Manufacturing	CETT 1449 – Digital Systems (AAS Technical elective) (8M475B – Practicum in Manufacturing 13033000 CTE Level 4 – Manufacturing CHANGE: *CETT 1407 Fundamentals of Electronics
	Total Credit Hours: 24

Total Credit Hours: 64

*Course prerequisite required

Certificate and degree course information is based on the [2023-2024 Dallas College](#) catalog. Programs may be revised during the academic year. Please access the official catalog for the official and most current degree and certificate information.

<p>¹ Creative/Fine Arts Appreciation Options: See success coach for placement</p> <p>ARTS 1301 – Art Appreciation DANC 2303 – Dance Appreciation I DRAM 1310 – Introduction to Theatre DRAM 2361 – History of Theater MUSI 1306 – Music Appreciation I</p>	<p>² MATH Options: See success coach for placement</p> <p>MATH 1332 – Contemporary Mathematics MATH 1314 – College Algebra</p>
<p>⁶ Component Area Options: See success coach for placement</p> <p>SPCH 1311 – Introduction to Speech Communication</p>	<p>⁴ Behavioral/Social Sciences Options: See success coach placement</p> <p>HIST 1301 – US History I OR CRIJ 1307 – Crime in America ECON 2301 – Macroeconomics ECON 2302 – Microeconomics GOVT 2305 – Federal Government HIST 1302 – US History II PHED 1304 – Personal/Community Health PSYC 2301 – General Psychology SOCI 1301 – Introduction to Sociology OR GOVT 2306 – Texas Government</p>