



P-TECH 4-year Plan

[Associate of Applied Science – Software Development](#)

School Information

ISD: Garland  
 Early College Program: Rowlett P-TECH  
 Dallas College: Richland

Plan Last Updated: 11/15/22  
 Catalog Year: 2022-2023

Career Information

Degree Pathway: Associate of Applied Science in Software Development  
 Certificate: C# Developer (C1) and PYTHON Developer (C2) HS Plan: STEM: Programming and Software Development

High School Courses

9 <sup>th</sup> 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 <sup>th</sup> 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 H (21413 A/B)
AVID II (A9847 A/B - Recommended)	US History AP
11 <sup>th</sup> Grade	
Language Other Than English	Geometry (Accelerated Geom 21411S – 1 sem/1 credit)
Physics	or Geometry H (21413 A/B)
	AVID III (A9848 A/B - Recommended)
12 <sup>th</sup> Grade	
English IV (10142)	AVID IV (A9849 A/B - Recommended)
4 <sup>th</sup> Science	US Government

College Courses

9 <sup>th</sup> : Fall Semester	Spring Semester
<b>MUSI 1306 – Music Appreciation</b> (66269S – Music Appreciation 0315560 1 sem/1 credit)	<b>ITSC 1401</b> (8K105S - Principles of Info Tech 13027200) double block
	Total Credit Hours: 7
10 <sup>th</sup> : Fall Semester	Spring Semester
<b>ITSE 1303 – Introduction to MySQL</b> (8O055A – Fundamentals of Computer Science 03580140) CTE Level 1	<b>ITSE 1329 – Programming Logic &amp; Design</b> C1, C2 (8O055B – Fundamentals of Computer Science 03580140) CTE Level 1
<b>ITSC 1305 – Intro to PC Operating Systems</b> (8O115A – Computer Science I 03580200) CTE Level 2	<b>ITSE 1370 – Intro to Python Programming</b> C2 (8O115B – Computer Science I 03580200) CTE Level 2
<b>SPCH 1311 – Intro to Speech Communication</b> (10311S – Comm Applications 03241400)	
	Total Credit Hours: 15
11 <sup>th</sup> : Fall Semester	Spring Semester

<b>ENGL 1301 – Composition I</b> (10505A – English Lang & Comp DC 03220300)	<b>*ENGL 1302 – Composition II</b> (10505B – English Lang & Comp DC 03220300)
<b>MATH 1314 – College Algebra C2</b> (21238S – Independent Study of Math 03102500; 1 sem/1 credit)	<b>ECON 2301 – Macroeconomics</b> (42409S – Economics DC 03310300)
<b>ITSE 1330 – Introduction to C# Programming C1</b> (##### - Intro to C# Programming Apps N1302812) CTE Level 3	<b>ITSE 2353 – Advanced C# Programming C1</b> (##### - Intro to C# Programming Apps N1302812) CTE Level 3
<b>ITNW 1325 – Fundamentals of Networking Tech C2</b> (8K735A - Internetworking Technology I N1302803)	<b>ITSY 1300 – Fundamentals of Information Security</b> (8K735B - Internetworking Technology I N1302803)
<b>ITSE 1301 – Web Design Tools C1</b> (8K315A – Web Design 03580820)	<b>INEW 1340 – ASP.NET Programming C1 only</b> (8K315B – Web Design 03580820)
	Total Credit Hours: 30

12 <sup>th</sup> : Fall Semester	Spring Semester
<b>ITSE 2370 – Intermediate Python Programming C2</b> (##### - Computer Science II 03580300) CTE Level 3	<b>ITSE 2371 – Python Data Science Tools C2</b> (##### - Computer Science II 03580300) CTE Level 3
<b>ITSE 1350 – System Analysis and Design C1, C2</b> (8O305A - Computer Science III) CTE Level 4	<b>INEW 2332 – Comprehensive Software Project: Coding, Testing, and Implementation</b> (8O305B - Computer Science III) CTE Level 4
<b>ITSE 1333 – Mobile Applications Development</b> (8O435S – Mobile App Development 03580390 double block) CTE Level 3	<b>ENGL 2311 – Technical &amp; Business Writing</b> (10552S – Research & Technical Writing 03221100)
	Total Credit Hours: 18
	Total Credit Hours: 70

\*Course Prerequisite Required

Certificate and degree course information is based on the [2022-2023 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>Humanities/Fine Arts Appreciation options Choose one course from each group (9 hours). See a counselor/advisor for placement.</p> <p>Group I: ENGL 1301 – Composition I</p> <p>Group II: SPCH 1311 – Introduction to Speech Communication SPCH 1321 – Business and Professional Communication</p> <p>Group III: ARTS 1301 – Art Appreciation ARTS 1303, 1304 – Art History I &amp; II DRAM 1310 – Introduction to Theatre DRAM 2361 – History of Theater DRAM 2366 – Film Appreciation HUMA 1315 – Fine Arts Appreciation MUSI 1306 – Music Appreciation I ENGL 2332, 2333 – World Literature I &amp; II FREN 2311, 2312 – Intermediate French I &amp; II SPAN 2311, 2312 – Intermediate Spanish I &amp; II PHIL 1301 – Introduction to Philosophy PHIL 2306 – Introduction to Ethics</p>	<p>Behavioral &amp; Social Sciences options: Choose from one course from one of the following groups (3 hours). See a counselor/advisor for placement.</p> <p>Group I: HIST 1301 – United States History I</p> <p>Group II: CRIJ 1307 – Crime in America ECON 2301 – Macroeconomics ECON 2302 – Microeconomics HIST 1302 – United States History II HIST 2321, 2322 – World Civilization I &amp; II PHED 1304 – Personal/Community Health PSYC 2301 – General Psychology SOC1 1301 – Introduction to Sociology GOVT 2305 – Federal Government</p> <p>Group III: GOVT 2306 – Texas Government</p>
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