



Construction Science P-TECH Crosswalks

Program of Study	IHE Partner	Program Previously Offered in District? (Y/N)
Construction Management and Inspection- Construction Technology		

Year / Grade Level	High School Course			Post-Secondary Course		
	PEIMS Course/ Code #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours
Year 0 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			.5	Total Year College Credit Hours		
Year 1 / Grade 9	03220100	English I Pre AP	1.0			
Year 1 / Grade 9	03100500 OR 03100700	Algebra 1 Pre AP or Geometry Pre-AP	1.0			
Year 1 / Grade 9	02010200	Biology Pre AP	1.0			
Year 1 / Grade 9	03340400	World History	1.0			
Year 1 / Grade 9	N1290001 OR 03440200	AVID/ Spanish II (if they completed Spanish 1 in MS)	1.0			
Year 1 / Grade 9	03500110	DC ART APPRECIATION	1.0	ARTS 1301	Art Appreciation	3.0
Year 1 / Grade 9	13004220	Principles of Construction (20 week)	1.0	CNBT 1301	Introduction to the Construction Industry	3.0
Year 1 / Grade 9	13005400	Building Maintenance Technology 1	1.0	CNBT 1311	Construction Methods and Materials	3.0
Total Year High School Credits			8.5	Total Year College Credit Hours		
Year 1.5 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			9.0	Total Year College Credit Hours		
Year 2/ Grade 10	1224Q	English II Pre- AP	1.0			
Year 2/ Grade 10	2224Q OR 2233D	Geometry Pre-AP or DC ALG 2 (SEE DC CLASS BELOW)	1.0			
Year 2/ Grade 10	3243Q	Chemistry PAP	1.0			
Year 2/ Grade 10	4234	US History	1.0			
Year 2/ Grade 10	5211	LOTE- Spanish I (or Elective if complete)	1.0			
Year 2/ Grade 10	8546	AVID	0.5			
Year 2/ Grade 10	TBD	Digital Communication for 21st Century	0.5	COSC 1301	Introduction to Computing	3.0
Year 2/ Grade 10	7125D	Construction Management 1	2.0	CNBT 1400 AND CNBT 1418	Residential and Light Commercial Blueprint Reading AND Construction Tools and Techniques	4.0 AND 4.0
Total Year High School Credits			17.0	Total Year College Credit Hours		
				20.0		

Year 3/Grade 11	03220300	English III DC	1.0	ENGL 1301	Composition I	3.0
Year 3/Grade 11	03100600	DC ALG 2	1.0	Math 1314	College Algebra	3.0
Year 3/Grade 11	03020000	Environmental Sys P-AP	1.0			
Year 3/Grade 11	03330100	Govt	0.5			
Year 3/Grade 11	03310300	Eco DC	0.5	ECON 1301	Introduction to Economics	3.0
Year 3/Grade 11	03440200	LOTE- Spanish II (or Elective if complete)	1.0			
Year 3/Grade 11	N1290030	AVID	1.0			
Year 3/Grade 11	13005100	Construction Technology I	2.0	CNBT 1416 AND CNBT 1450	Construction Technology I AND Construction Technology II	4.0 AND 4.0
Total Year High School Credits			25.0	Total Year College Credit Hours		37.0
Year 4/Grade 12	03220400	English 4	1.0			
Year 4/Grade 12	1270410	Applied Mathematics for Technical Professionals	1.0			
Year 4/Grade 12	03050000	Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3.0
Year 4/Grade 12	N1290033	AVID/ Elective	1.0			
Year 4/Grade 12	13005000	Construction Management 2	2.0	CNBT 1342 AND CNBT 2342	Building Codes and Inspections AND Construction Management	3.0 AND 3.0
Year 4/Grade 12	13005200	Construction Tech II	2.0	CNBT 1453 AND PFPB 1413	Construction Technology III AND Introduction to the Plumbing Trade	4.0 AND 4.0
Year 4/Grade 12	13006200	Practicum of Construction Technology	1.0	CNBT 2439	Construction Technology IV	4.0
Total Year High School Credits			34.0	Total Year College Credit Hours		58.0
Optional Year 5	13006205	Extended Practicum in Construction Management	3.0	CNBT 2266	Practicum	2.0
Total Year High School Credits			37.0	Total Year College Credit Hours		60.0
Certification (s) to be earned by high school graduation:		Construction Technology Level 1, NCCER Core, OSHA 30				
Degree (s) to be earned by high school graduation:		Construction Technology AAS				

Program of Study	IHE Partner	Program Previously Offered in District? (Y/N)
Construction Management and Inspection- Construction Sci & Mgt.		

Year / Grade Level	High School Course			Post-Secondary Course		
	PEIMS Course/Code #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours
Year 0 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			.5	Total Year College Credit Hours		
Year 1 / Grade 9	03220100	English I Pre- AP	1.0			
Year 1 / Grade 9	03100500 OR 03100700	Algebra 1 Pre AP or Geometry Pre-AP	1.0			
Year 1 / Grade 9	02010200	Biology PAP	1.0			
Year 1 / Grade 9	03340400	World History	1.0			
Year 1 / Grade 9	03440200 OR 03440100	LOTE- Spanish I/ Spanish II	1.0			
Year 1 / Grade 9	N1290001	AVID	1.0			
Year 1 / Grade 9	03500110	DC ART APPRECIATION	1.0	ARTS 1301	Art Appreciation	3.0
Year 1 / Grade 9	13004220	Principles of Construction (non DC)	1.0			

Total Year High School Credits			8.5	Total Year College Credit Hours		
Year 1.5 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			9.0	Total Year College Credit Hours		
Year 2/ Grade 10	03220200	English II Pre- AP	1.0			
Year 2/ Grade 10	03100700 OR 03100600	Pre-AP Geom OR Pre-AP Alg 2	1.0			
Year 2/ Grade 10	3060200	DC Earth Space Science	1.0	GEOL 1301 AND ENVR 1302	Earth Sciences Lecture 1 AND Environmental Science 2	3.0 AND 3.0
Year 2/ Grade 10	03340100	DC US History	1.0	HIST 1301 AND HIST 1302	United States history 1 AND United States history 2	3.0 AND 3.0
Year 2/ Grade 10	03440200	LOTE- Spanish II/Elective	1.0			
Year 2/ Grade 10	13004900	Construction Management 1	1.0			
Year 2/ Grade 10	N1290002	AVID	1.0			
Year 2/ Grade 10	13011200	Principles of Business	0.5	BUSI 1301	Business principles	3.0
Year 2/ Grade 10	13009900	Professional Communications	0.5	SPCH 1315	Public speaking	3.0
Total Year High School Credits			17.0	Total Year College Credit Hours		
Year 3/Grade 11	03220300	English III DC	1.0	ENGL 1301 AND ENGL 1302	Composition 1 AND Composition 2	3.0 AND 3.0
Year 3/Grade 11	03100600 13018000	Alg 2 or Financial Math	1.0	MATH 1324	Mathematics for Business*	3.0
Year 3/Grade 11	03040000	Chemistry PAP	1.0			
Year 3/Grade 11	03330100	Govt	0.5	GOVT 2305	Federal Government	3.0
Year 3/Grade 11	3380002	DC Special Topics 1	0.5	GOVT 2306	Texas government	3.0
Year 3/Grade 11	TBD	TBD	2.0	BCIS 1305	Business Computer Applications	3.0
Year 3/Grade 11	N1290030	AVID	1.0			
Year 3/Grade 11	13016600	Accounting 1	1.0	ACCT 2301 AND ACCT 2302	Principles of financial accounting AND Principles of Managerial Accounting	3.0 AND 3.0
Total Year High School Credits			25.0	Total Year College Credit Hours		
Year 4/Grade 12	TBD	depends on the class selected	1.0		Language, Philosophy, & Culture CORE?	3.0
Year 4/Grade 12	3102530	Statistics	1.0	BUSI 2305	Business statistics	3.0
Year 4/Grade 12	03050000	Physics DC	1.0			
Year 4/Grade 12	3310300	DC ECO	0.5	ECON 2302	Principles of Microeconomics	3.0
Year 4/Grade 12	TBD	TBD	0.5	ECO 2301	Principles of Macroeconomics	3.0
Year 4/Grade 12	N1290033	AVID	1.0			
Year 4/Grade 12	13006200	Practicum in Construction Management (non DC)	2.0			
Total Year High School Credits			34.0	Total Year College Credit Hours		
Optional Year 5				CSM 4623	Construction Safety	3.0
Optional Year 5				AIS 1203	Academic Inquiry and Scholarship	3.0
Optional Year 5				BLW 3013	Business Law	3.0
Optional Year 5				MGT 3013	Introduction to Organization Theory, Behavior, and Management	3.0
Optional Year 5				CSM 2143	Construction Materials and Testing	3.0
Optional Year 5				CSM 3143	Structures 1	3.0
Optional Year 5				CSM 4143	Structures 2	3.0
Optional Year 5				CSM 4513	Project Management	3.0

Optional Year 5				CSM 4533	BIM for Construction Management	3.0
Optional Year 5				CSM 3113	Construction Surveying	3.0
Total Year High School Credits				Total Year College Credit Hours		
Certification (s) to be earned by high school graduation:		NCCER Core, OSHA 30				
Degree (s) to be earned by high school graduation:		Construction Science and Management BS				

Program of Study	IHE Partner	Program Previously Offered in District? (Y/N)
Renewable Energy- Power Generation & Alternative Energy		

Year / Grade Level	High School Course			Post-Secondary Course		
	PEIMS Course/Code #	High School Course Name	High School Credits	Texas Common Course Numbering System Number	College Course Name	College Credit Hours
Year 0 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			.5	Total Year College Credit Hours		
Year 1 / Grade 9	03220100	English I Pre- AP	1.0			
Year 1 / Grade 9	03100500 OR 03100700	Algebra 1 Pre AP or Geometry Pre-AP	1.0			
Year 1 / Grade 9	02010200	Biology PAP	1.0			
Year 1 / Grade 9	03340400	World History	1.0			
Year 1 / Grade 9	03440200 OR 03440100	LOTE- Spanish I/ Spanish II	1.0			
Year 1 / Grade 9	N1290001	AVID/Elective	1.0			
Year 1 / Grade 9	13004220	Principles of Construction (20 week)	1.0	CNBT 1301	Introduction to the Construction Industry	3.0
Year 1 / Grade 9	3580610	Digital Communication for 21st Century	1.0	COSC 1301	Introduction to Computing	3.0
Total Year High School Credits			8.5	Total Year College Credit Hours		
Year 1.5 / Summer Bridge	PES00052	Foundations of Personal Fitness	.5			
Total Year High School Credits			9.0	Total Year College Credit Hours		
Year 2/ Grade 10	03220200	English II Pre- AP	1.0			
Year 2/ Grade 10	03100700 OR 03100600	Pre-AP Geom or DC ALG 2 (see below)	1.0			
Year 2/ Grade 10	03040000	Chemistry PAP	1.0			
Year 2/ Grade 10	03440100	LOTE- Spanish II (or AVID if complete)	1.0			
Year 2/ Grade 10	03340100	US History	1.0			
Year 2/ Grade 10	N1300263	Foundations of Energy (20 week course)	1.0	ELMT 1302 AND WIND 2355	Solar Photovoltaic Systems AND Wind Turbine Troubleshooting and Repair	3.0 AND 3.0
Year 2/ Grade 10	13004900	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0
Total Year High School Credits			17.0	Total Year College Credit Hours		
Year 3/Grade 11	03220300	English III DC	1.0	ENGL 1301	Composition I	3.0
Year 3/Grade 11	03100600	DC ALG 2	1.0	Math 1314	College Algebra	3.0
Year 3/Grade 11	03020000	Environmental Sys P-AP	1.0			
Year 3/Grade 11		Fine Arts	1.0			
Year 3/Grade 11	N1290030	AVID/Elective	1.0			
Year 3/Grade 11	13037200	Scientific Research and Design	1.0	ELMT 2351 AND FCEL 1302	Power Generation Fundamentals AND	3.0 AND 3.0

					Introduction to Fuel Cell Technology	
Year 3/Grade 11	13036800	AC/DC Electronics	2.0	CETT 1409	DC-AC Circuits	4.0
Total Year High School Credits			25.0	Total Year College Credit Hours		32.0
Year 4/Grade 12	03220400	English 4	1.0			
Year 4/Grade 12	TBD	Applied Math for Tech Prof OR Engineering Math/ College Math (if not completed before)	1.0			
Year 4/Grade 12	03050000	Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3.0
Year 4/Grade 12	03330100	Govt	0.5			
Year 4/Grade 12	03310300	Eco DC	0.5	ECON 1301	Introduction to Economics	3.0
Year 4/Grade 12	N1290033	AVID/Elective	0.5			
Year 4/Grade 12	TBD	depends on the class selected	0.5		Language, Philosophy, & Culture CORE?	3.0
	13037400	Practicum in STEM	1.0	ELMT 2322 AND ELMT 1307	IT Essentials: Smart Grid Fundamentals AND Photovoltaic Technical Sales	3.0 AND 3.0
	12701500	Project based research	2.0	HART 1493 AND WIND 2359	Special Topics in Solar Technology/Technician AND Wind Power Delivery Systems	4.0 AND 3.0
Total Year High School Credits			33.0	Total Year College Credit Hours		
Optional Year 5	13037405	Extended Practicum in STEM	3.0	EECT 2266	Practicum	2.0
Total Year High School Credits			36.0	Total Year College Credit Hours		
Certification (s) to be earned by high school graduation:		Power Generation and Alternative Energy Level 1, Power Generation and Alternative Energy Level 2, NCCER Core, OSHA 30				
Degree (s) to be earned by high school graduation:		Power Generation and Alternative Energy AAS				