



## Construction Science P-TECH Curriculum Alignment

### Construction Technology- Level 1 Certificate

PEIMS Course #	HS Course #	High School Course Name	HS Credits	College course #	College Course Name	College Credit #	TSI Requirements
13004220	7143D3	Principles of Construction	1.0	CNBT 1301	Introduction to the Construction Industry	3.0	No requirements
13005400	7145D	Building Maintenance Technology 1	1.0	CNBT 1311	Construction Methods and Materials	3.0	Ready for INRW 0420, MATH 0410
13004900	7125D	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0	INRW 0420, MATH 0410
13004900	7125D	Construction Management 1	2.0	CNBT 1418	Construction Tools and Techniques	4.0	Ready for INRW 0420, MATH 0410
13005100	7144D3	Construction Technology I	2.0	CNBT 1416	Construction Technology I	4.0	Ready for INRW 0420, MATH 0410
13005100	7144D3	Construction Technology I	2.0	CNBT 1450	Construction Technology II	4.0	Ready for INRW 0420, MATH 0410
13005200	7185D	Construction Tech II	2.0	PFPB 1413	Introduction to the Plumbing Trade	4.0	Ready for INRW 0420, MATH 0410
13005000	7126D	Construction Management 2	1.0	CNBT 1342	Building Codes and Inspections	3.0	Ready for INRW 0420, MATH 0410
13005000	7126D	Construction Management 2	1.0	CNBT 2342	Construction Management	3.0	Ready for INRW 0420, MATH 0410
13006205	7134D	Extended Practicum in Construction Management	3.0	CNBT 2266	Practicum	2.0	Ready for INRW 0420, MATH 0410

### Construction Technology- Associate Degree in Applied Science

PEIMS Course #	HS Course #	High School Course Name	HS Credits	College course #	College Course Name	College Credit #	TSI Requirements
03500110	6473	DC ART APPRECIATION	1.0	ARTS 1301	Art Appreciation	3.0	Ready for INRW 0420
13004220	7143D3	Principles of Construction	1.0	CNBT 1301	Introduction to the Construction Industry	3.0	No requirements
13005400	7145D	Building Maintenance Technology 1	1.0	CNBT 1311	Construction Methods and Materials	3.0	Ready for INRW 0420, MATH 0410
03580610	TBD	Digital Communication for 21st Century	0.5	COSC 1301	Introduction to Computing	3.0	Ready for INRW 0420, MATH 0410
13004900	7125D	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0	Ready for INRW 0420, MATH 0410
13004900	7125D	Construction Management 1	2.0	CNBT 1418	Construction Tools and Techniques	4.0	Ready for INRW 0420, MATH 0410
03220300	1234D	English III DC	1.0	ENGL 1301	Composition I	3.0	INRW 0420
03100600	2233D	DC ALG 2	1.0	Math 1314	College Algebra	3.0	MATH 0320
03310300	4264D	Eco DC	0.5	ECON 1301	Introduction to Economics	3.0	Ready for INRW 0420, MATH 0410
13005100	7144D3	Construction Technology I	2.0	CNBT 1416	Construction Technology I	4.0	Ready for INRW 0420, MATH 0410
13005100	7144D3	Construction Technology I	2.0	CNBT 1450	Construction Technology II	4.0	Ready for INRW 0420, MATH 0410
03050000	3263D	Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3.0	INRW 0420, MATH 0320
13005000	7126D	Construction Management 2	2.0	CNBT 1342	Building Codes and Inspections	3.0	Ready for INRW 0420, MATH 0410
13005000	7126D	Construction Management 2	2.0	CNBT 2342	Construction Management	3.0	Ready for INRW 0420, MATH 0410
13005200	7185D	Construction Tech II	2.0	CNBT 1453	Construction Technology III	4.0	Ready for INRW 0420, MATH 0410
13005200	7185D	Construction Tech II	2.0	PFPB 1413	Introduction to the Plumbing Trade	4.0	Ready for INRW 0420, MATH 0410
13006200	7127D	Practicum of Construction Technology	1.0	CNBT 2439	Construction Technology IV	4.0	Ready for INRW 0420, MATH 0410

		Practicum of Construction Management			CNBT 2266	Practicum	2	Ready for INRW 0420, MATH 0410
13006205	7134D	Extended Practicum in Construction Management	3.0		CNBT 2266	Practicum	2.0	Ready for INRW 0420, MATH 0410

### **Construction Science and Management- Bachelor of Science**

<b>PEIMS Course #</b>	<b>HS Course #</b>	<b>High School Course Name</b>	<b>HS Credits</b>	<b>College course #</b>	<b>College Course Name</b>	<b>College Credit #</b>	<b>TSI Requirements</b>
03500110	6473	DC ART APPRECIATION	1.0	ARTS 1301	Art Appreciation	3.0	Ready for INRW 0420
3060200	3651D	DC Earth Space Science	1.0	GEOL 1301	Earth Sciences Lecture 1	3.0	INRW 0420, MATH 0410
3060200	3651D	DC Earth Space Science	1.0	ENVR 1302	Environmental Science 2	3.0	INRW 0420, MATH 0320
03340100	4234D	DC US History	1.0	HIST 1301	United States history 1	3.0	INRW 0420
03340100	4234D	DC US History	1.0	HIST 1302	United States history 2	3.0	INRW 0420
13011200	7301 (NEED DC)	Principles of Business	0.5	BUSI 1301	Business principles	3.0	INRW 0420
13009900	7972	Professional Communications	0.5	SPCH 1315	Public speaking	3.0	Ready for INRW 0420
03220300	1234D	English III DC	1.0	ENGL 1301	Composition 1	3.0	INRW 0420
03220300	1234D	English III DC	1.0	ENGL 1302	Composition 2	3.0	INRW 0420
03100600 13018000	2233Q OR 7359 (need DC)	Alg 2 or Financial Math	1.0	MATH 1324	Mathematics for Business*	3.0	MATH 0320
03330100	4254D	Govt	0.5	GOVT 2305	Federal Government	3.0	INRW 0420
3380002	4510D	DC Special Topics 1	0.5	GOVT 2306	Texas government	3.0	INRW 0420
TBD	TBD	TBD	2.0	BCIS 1305	Business Computer Applications	3.0	none listed
13016600	7351 (needs DC)	Accounting 1	1.0	ACCT 2301	Principles of financial accounting	3.0	INRW 0420, MATH 0320
13016600	7351 (needs DC)	Accounting 1	1.0	ACCT 2302	Principles of Managerial Accounting	3.0	INRW 0420, MATH 0320

03220400	1244D	English 4 DC	1.0	ENGL 2322 & 2323	British Literature 1 & 2	6.0	INRW 0420
3221800	1250D	English 5 DC	1.0	ENGL 2327 & 2328	American Literature 1 & 2	6.0	INRW 0420
03380084	4701D	DC Mex American Studies	1.0	ENGL 2351 & HUMA 1305	Mexican American Literature & intro to Mexican American studies	6.0	INRW 0420
TBD	TBD	TBD	TBD	HUMA 2319 & 2323	American minority studies & world cultures	6.0	INRW 0420
3102530	2534D	Statistics	1.0	BUSI 2305	Business statistics	3.0	MATH 0320
3310300	4264D	DC ECO	0.5	ECON 2302	Principles of Microeconomics	3.0	MATH 0410 & INRW 0420
TBD	TBD	TBD	0.5	ECO 2301	Principles of Macroeconomics	3.0	MATH 0410 & INRW 0420
TBD- After "Graduation"	TBD	TBD		EDUC 1300	Learning Framework	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4623	Construction Safety	3.0	TBD
TBD- After "Graduation"	TBD	TBD		AIS 1203	Academic Inquiry and Scholarship	3.0	TBD
TBD- After "Graduation"	TBD	TBD		BLW 3013	Business Law	3.0	TBD
TBD- After "Graduation"	TBD	TBD		MGT 3013	Introduction to Organization Theory, Behavior, and Management	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 2143	Construction Materials and Testing	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 3143	Structures 1	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4143	Structures 2	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4513	Project Management	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4533	BIM for Construction Management	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 3113	Construction Surveying	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4013	Construction Estimating 1	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4023	Construction Estimating 2	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4613	Sustainable Building Practice	3.0	TBD

TBD- After "Graduation"	TBD	TBD		CSM 4523	Project Planning & Scheduling	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4643	Mechanical, Electrical and Plumbing Systems	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4633	Construction Law	3.0	TBD
TBD- After "Graduation"	TBD	TBD		TBD	ELECTIVE (depends on above credits)		TBD
TBD- After "Graduation"	TBD	TBD		TBD	ELECTIVE (depends on above credits)		TBD
TBD- After "Graduation"	TBD	TBD		CSM 4713	Construction Capstone- Practicum in CSM*	3.0	TBD
TBD- After "Graduation"	TBD	TBD		CSM 4933	Summer Internship	3	TBD

### **Power Generation and Alternative Energy- Level 1 Certificate**

<b>PEIMS Course #</b>	<b>HS Course #</b>	<b>High School Course Name</b>	<b>HS Credits</b>	<b>College course #</b>	<b>College Course Name</b>	<b>College Credit #</b>	<b>TSI Requirements</b>
13004220	7143D3	Principles of Construction	1.0	CNBT 1301	Introduction to the Construction Industry	3.0	None listed
3580610	TBD	Digital Communication for 21st Century	1.0	COSC 1301	Introduction to Computing	3.0	Ready for INRW 0420, MATH 0410
N1300263	TBD	Foundations of Energy	1.0	ELMT 1302	Solar Photovoltaic Systems	3.0	Ready for INRW 0420
13004900	7125D	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0	Ready for INRW 0420, MATH 0410
13036800	7831D	AC/DC Electronics	2.0	ELPT 1429	Residential Wiring	4.0	none listed

### **Power Generation and Alternative Energy- Level 2 Certificate**

<b>PEIMS Course #</b>	<b>HS Course #</b>	<b>High School Course Name</b>	<b>HS Credits</b>	<b>College course #</b>	<b>College Course Name</b>	<b>College Credit #</b>	<b>TSI Requirements</b>
13004220	7143D3	Principles of Construction	1.0	CNBT 1301	Introduction to the Construction Industry	3.0	None listed
3580610	TBD	Digital Communication for 21st Century	1.0	COSC 1301	Introduction to Computing	3.0	Ready for INRW 0420, MATH 0410
N1300263	TBD	Foundations of Energy	1.0	ELMT 1302	Solar Photovoltaic Systems	3.0	Ready for INRW 0420
N1300263	TBD	Foundations of Energy	1.0	WIND 2355	Wind Turbine Troubleshooting and Repair	3.0	Ready for INRW 0420

13004900	7125D	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0	Ready for INRW 0420, MATH 0410
03220300	1234D	English III DC	1.0	ENGL 1301	Composition I	3.0	INRW 0420
03100600	2233D	DC ALG 2	1.0	Math 1314	College Algebra	3.0	MATH 0320
13037200	7860 (need DC)	Scientific Research and Design	1.0	ELMT 2351	Power Generation Fundamentals	3.0	Ready for INRW 0420
13037200	7860 (need DC)	Scientific Research and Design	1.0	FCEL 1302	Introduction to Fuel Cell Technology	3.0	none listed
13036800	7831D	AC/DC Electronics	2.0	CETT 1409	DC-AC Circuits	4.0	none listed
13036800	7831D	AC/DC Electronics	2.0	ELPT 1429	Residential Wiring	4.0	none listed
03050000	3263D	Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3.0	INRW 0420, MATH 0320
13037400	7841D	Practicum in STEM	2.0	ELMT 1307	IT Essentials: Smart Grid Fundamentals	3.0	none listed

**Power Generation and Alternative Energy- Associate Degree in Applied Science**

PEIMS Course #	HS Course #	High School Course Name	HS Credits	College course #	College Course Name	College Credit #	TSI Requirements
13004220	7143D3	Principles of Construction	1.0	CNBT 1301	Introduction to the Construction Industry	3.0	None listed
3580610	TBD	Digital Communication for 21st Century	1.0	COSC 1301	Introduction to Computing	3.0	Ready for INRW 0420, MATH 0410
N1300263	TBD	Foundations of Energy	1.0	ELMT 1302	Solar Photovoltaic Systems	3.0	Ready for INRW 0420
N1300263	TBD	Foundations of Energy	1.0	WIND 2355	Wind Turbine Troubleshooting and Repair	3.0	Ready for INRW 0420
13004900	7125D	Construction Management 1	2.0	CNBT 1400	Residential and Light Commercial Blueprint Reading	4.0	Ready for INRW 0420, MATH 0410
03220300	1234D	English III DC	1.0	ENGL 1301	Composition I	3.0	INRW 0420
03100600	2233D	DC ALG 2	1.0	Math 1314	College Algebra	3.0	MATH 0320
13037200	7860 (need DC)	Scientific Research and Design	1.0	ELMT 2351	Power Generation Fundamentals	3.0	Ready for INRW 0420
13037200	7860 (need DC)	Scientific Research and Design	1.0	FCEL 1302	Introduction to Fuel Cell Technology	3.0	none listed

13036800	7831D	AC/DC Electronics	2.0	CETT 1409	DC-AC Circuits	4.0	none listed
13036800	7831D	AC/DC Electronics	2.0	ELPT 1429	Residential Wiring	4.0	none listed
03050000	3263D	Physics DC	1.0	PHYS 1305	Introductory Physics I Lecture	3.0	INRW 0420, MATH 0320
03310300	4264D	Eco DC	0.5	ECON 1301	Introduction to Economics	3.0	Ready for INRW 0420
03220400	1244D	English 4 DC	1.0	ENGL 2322	British Literature 1	3.0	INRW 0420
3221800	1250D	English 5 DC	1.0	ENGL 2327	American Literature 1	3.0	INRW 0420
03380084	4701D	DC Mex American Studies	1.0	ENGL 2351	Mexican American Literature	3.0	INRW 0420
03380084	4701D	DC Mex American Studies	1.0	HUMA 1305	Intro to Mexican American studies	3.0	INRW 0420
TBD	TBD	TBD	1.0	HUMA 2319	American minority studies	3.0	INRW 0420
TBD	TBD	TBD	1.0	HUMA 2323	World cultures	3.0	INRW 0420
13037400	7841D	Practicum in STEM	1.0	ELMT 1307	IT Essentials: Smart Grid Fundamentals	3.0	none listed
13037400	7841D	Practicum in STEM	1.0	ELMT 2322	Photovoltaic Technical Sales	3.0	none listed
12701500	TBD	Project based research	2.0	HART 1493	Special Topics in Solar Technology/Technician	4.0	MATH 0410
12701500	TBD	Project based research	2.0	WIND 2359	Wind Power Delivery Systems	3.0	none listed
13037405	7842 (need DC)	Extended Practicum in STEM	3.0	EECT 2266	Practicum	2.0	none listed