

Initial Mathematics and Science Teaching Certificates by Certification Field and Grade Level 2019-20 through 2022-23

This study reports the number and percentage of standard Mathematics and Science teaching certificates issued by year to candidates who did not previously hold a Texas teaching certificate. The data is reported by certificate rather than teacher and aggregated by academic year, certification field, and grade level. Some educators received certificates in Mathematics and Science concurrently. In such cases, both certificates are reported.

Definitions: An initial teaching certificate is a standard teaching certificate issued to a teacher who was not previously issued a standard or lifetime teaching certificate. Standard certificates, as defined in [19 TAC Chapter 230](#), are certificates offered since September 1, 1999 that are renewed every five years. The academic year is determined by the date of issuance. An academic year is defined as September 1 through August 31 of the following calendar year.

Mathematics Certificates

Certificate Area	Certificate Field	Grade Level	2019-20		2020-21		2021-22		2022-23	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent
Mathematics	Mathematics	4-8	682	44.49%	840	42.75%	750	43.76%	690	44.26%
		7-12	695	45.34%	960	48.85%	792	46.21%	722	46.31%
	Mathematics / Science	4-8	156	10.18%	165	8.40%	172	10.04%	147	9.43%
	All Mathematics		1,533	100.00%	1,965	100.00%	1,714	100.00%	1,559	100.00%

Science Certificates

Certificate Area	Certificate Field	Grade Level	2019-20		2020-21		2021-22		2022-23	
			Number	Percent	Number	Percent	Number	Percent	Number	Percent
Science	Chemistry	7-12	55	4.52%	71	4.34%	80	5.54%	88	6.14%
	Life Science	7-12	294	24.14%	424	25.93%	410	28.37%	396	27.63%
	Physical Science	6-12	35	2.87%	49	3.00%	39	2.70%	43	3.00%
	Physical Science / Math / Engineering	6-12	22	1.81%	31	1.90%	29	2.01%	26	1.81%
	Physics / Mathematics	7-12	33	2.71%	40	2.45%	22	1.52%	25	1.74%
	Science - Composite	4-8	349	28.65%	452	27.65%	402	27.82%	447	31.19%
		7-12	430	35.30%	568	34.74%	463	32.04%	408	28.47%
All Science		1,218	100.00%	1,635	100.00%	1,445	100.00%	1,433	100.00%	

Methodology: We identified all standard teaching certificates in the certification areas of Mathematics and Science that were issued between September 1, 2019 and August 31, 2023 to educators who did not previously hold a standard or lifetime teaching certificate in the Educator Certification Online System

(ECOS). One Mathematics / Science certificate for grade level 8-12 that was effective beginning in 2013 but not issued until 2018 was removed from the dataset because grade level 8-12 certificates were no longer offered after 2015. The initial certificates were categorized into academic years and aggregated by certificate field and grade level.

Notes: The counts may differ from those reported in previous years. This occurs for two reasons: (1) as errors are discovered, they are corrected, or (2) we update our programming to improve the accuracy in capturing the population of interest.