

Initial Mathematics and Science Teaching Certificates by Certification Field and Grade Level 2016-17 through 2018-19

This study reports the number and percentage by year of standard Mathematics and Science teaching certificates issued to candidates who did not previously hold a teaching certificate in the state of Texas. 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	2018-19		2017-18		2016-17	
			Number	Percent	Number	Percent	Number	Percent
Mathematics	Mathematics	4-8	714	40.57%	715	39.81%	684	36.91%
		7-12	905	51.42%	918	51.11%	992	53.53%
	Mathematics / Science	4-8	141	8.01%	163	9.08%	177	9.55%
	All Mathematics		1,760	100%	1,797	100%	1,853	100%

Science Certificates

Certificate Area	Certificate Field	Grade Level	2018-19		2017-18		2016-17	
			Number	Percent	Number	Percent	Number	Percent
Science	Chemistry	7-12	54	3.66%	76	5.09%	54	3.41%
	Life Science	7-12	362	24.51%	363	24.30%	358	22.62%
	Physical Science	6-12	41	2.78%	31	2.07%	30	1.90%
	Physical Science / Math / Engineering	6-12	23	1.56%	22	1.47%	25	1.58%
	Physics / Mathematics	7-12	28	1.90%	25	1.67%	33	2.08%
	Science - Composite	4-8	380	25.73%	372	24.90%	396	25.02%
		7-12	589	39.88%	605	40.50%	687	43.40%
	All Science		1,477	100%	1,494	100%	1,583	100%

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Methodology: All standard teaching certificates in the certification areas of Mathematics and Science that were issued between September 1, 2016 and August 31, 2019 to educators who did not previously hold a standard or lifetime teaching certificate were identified 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.

Note: In our effort toward continuous improvement in data accuracy, we have updated our methodology and programming for identifying the program of the initial certification to better align with the practices of Educator Certification department. Due to these improvements, numbers reported herein may be significantly different from those reported in previous years and should not be considered comparable with reports from prior years.