

## Certificate in Mathematics for Professionals and Educators at Bowling Green State University

**Description:** This 18-hour graduate-level certificate program is designed for professionals working in a field aligned with mathematics, especially professional educators who need to deepen and broaden their knowledge and skills in mathematics to remain competitive in their current positions and/or expand their career horizons. In recent semesters, we have offered a selection of online or remote courses that made it possible to complete the certificate. The three-hour courses listed below will count for CCP credentialing in high schools that partner with BGSU. Contact Ben Ward, Graduate Coordinator in Mathematics and Statistics, by email at [benward@bgsu.edu](mailto:benward@bgsu.edu) for more information.

Name: \_\_\_\_\_

Your Advisor's Name: \_\_\_\_\_

Semester	Year	<b>Electives (Choose at least 6; with <u>at least 3</u> from the first block of courses listed below)*</b>		
		MATH	6020	Geometric Problems and Misconceptions (In-Person)
		MATH	6030	Algebraic Problems and Misconceptions (Online)
		MATH	6280	Topics in Mathematics Education (In-Person)
		MATH	5010	Number Theory (In-Person)
		MATH	5340	Advanced Calculus (In-Person) ♣
		MATH	5410	Probability and Statistics I (Remote [Summer], In-Person [Fall]) ♦
		MATH	5650	Introduction to Real Analysis I (Remote [Summer], In-Person [Fall]) ♣
		MATH	5820	Topics in Mathematics, Topic: _____ (Online and/or Remote)
		MATH	6820	Topics in Mathematics, Topic: _____ (Online and/or Remote)

		MATH	5020	Modern Geometry (In-Person)
		MATH	5030	Modern Algebra I (In-Person)
		MATH	5040	Modern Algebra II (In-Person)
		MATH	5110	History of Mathematics (Online)
		MATH	5170	Advanced Mathematics & the Early Adulthood Context (Online)
		MATH	5250	Theory of Interest (In-Person)
		MATH	5320	Linear Algebra with Applications (In-Person)
		MATH	5420	Probability and Statistics II (In-Person) ♦
		MATH	5450	Applied Probability (In-Person) ♦
		MATH	5470	Exploratory Data Analysis (Online) ♦
		MATH	5510	Numerical Analysis (In-Person)
		MATH	5610	Introduction to Complex Analysis (In-Person) ♣
		MATH	5820	Topics in Mathematics, Topic: _____ (Online and/or Remote)
		MATH	6820	Topics in Mathematics, Topic: _____ (Online and/or Remote)

**Other electives (must be approved by Advisor & Graduate Coordinator)**

				_____
				_____

**18 Total Required Credits.**

Note: Students who attended BGSU as an undergraduate cannot get credit for both the 4000 and 5000 level version of cross-listed courses; this applies in particular to MATH 4020/5020, 4110/5110, and 4170/5170.

Some recommendations for CCP teachers depend on the courses one intends to teach:

♦ These courses are recommended for CCP teachers interested in teaching Elementary Statistics.

♣ These courses are recommended for CCP teachers interested in teaching Calculus.