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 been offering enough online courses to make it possible to complete the certificate by taking courses online. The courses listed below will count for CCP credentialing in high schools that partner with BGSU. Contact Benjamin Ward, graduate coordinator in Mathematics and Statistics, by email, benward@bgsu.edu, for more information.

Checkshee	et	Name:			
				Your Advisor's Name:	
				18 hour certificate progra	
Semester	Year	Electives (Choose at least 6, with <u>at least THREE</u> from the first 9 courses listed below)*			
		MATH	6020	Geometric Problems and Misconceptions (3 hours, face-to-face)	
		MATH	6030	Algebraic Problems and Misconceptions (3 hours, occasionally online)	
		MATH	6280	Topics in Mathematics Education (3 hours, face-to-face)	
		MATH	5010	Number Theory (3 hours, face-to-face)	
		MATH	5340	Advanced Calculus (3 hours, face-to-face) ♣	
		MATH	5410	Probability and Statistics I (3 hours, face-to-face, summer, fall) ◆	
		MATH	5650	Introduction to Real Analysis I (3 hours, face-to-face course) ♣	
		MATH	5820	Topics in Mathematics (3 hours, occasionally online)	
		MATH	6820	Topics in Mathematics (3 hours, occasionally online)	
		MATH	5020	Modern Geometry (3 hours, face-to-face)	
		MATH	5030	Modern Algebra I (3 hours, face-to-face)	
		MATH	5040	Modern Algebra II (3 hours, face-to-face)	
		MATH	5110	History of Mathematics (3 hours, usually online)	
			5450	Advanced Mathematics Topics and the Early Adulthood Context (3 hours,	
		MATH	5170	occasionally online)	
		MATH	5250	Theory of Interest (3 hours, face-to-face)	
		MATH	5320	Linear Algebra with Applications (3 hours, face-to-face)	
		MATH	5420	Probability and Statistics II (3 hours, face-to-face) ◆	
		MATH	5450	Applied Probability (3 hours, face-to-face) ◆	
		MATH	5470	Exploratory Data Analysis (3 hours, usually online) ◆	
		MATH	5510	Numerical Analysis (3 hours, face-to-face)	
		MATH	5610	Introduction to Complex Analysis (3 hours, face-to-face) ♣	
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		Other	.loctivo	s (must be approved by advisor & Graduate Coordinator)	
			FIECLI VE	s (iliust be approved by advisor & Graduate Coordinator)	

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