

CCP CREDENTIALING IN MATHEMATICS - GRADUATE CERTIFICATE

College of Sciences and Humanities
Department of Mathematical Sciences
www.kent.edu/math

About This Program

Expand your teaching opportunities with the CCP Credentialing in Mathematics graduate certificate, designed for those interested in teaching at the college level. This certificate provides mathematics coursework for fulfilling the state required 18 graduate credit hours for students who already have a master's degree. Read more...

Contact Information

- TBD
- Connect with an Admissions Counselor

Program Delivery

- **Delivery:**
 - Mostly online
- **Location:**
 - Kent Campus

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree in mathematics or integrated mathematics from an accredited college or university¹
- Minimum 3.000 undergraduate mathematics GPA on a 4.000-point scale
- Official transcript(s)

¹ Students with a bachelor's degree in a major other than mathematics or integrated mathematics may be admitted if they have completed equivalent coursework.

Application Deadlines

- **Fall Semester**
 - Rolling admissions
- **Spring Semester**
 - Rolling admissions
- **Summer Term**
 - Rolling admissions

Program Requirements

Certificate Requirements

Code	Title	Credit Hours
Certificate Requirements (min B- grade required in all courses)		
Mathematics (MATH) Graduate Electives (50000 level or higher) approved by program coordinator		9
Certificate Electives, choose from the following:		9
MATH 52021	GRAPH THEORY AND COMBINATORICS	
MATH 55021	EUCLIDEAN GEOMETRY	
MATH 57011	THEORY OF NUMBERS	
MATH 64091	SEMINAR IN MATHEMATICS EDUCATION (repeatable)	
MATH 67057	ADVANCED CONCEPTS OF GEOMETRY	
MATH 67067	ADVANCED CONCEPTS OF PROBABILITY AND STATISTICS	
MATH 67077	ADVANCED CONCEPTS OF ALGEBRA	
Minimum Total Credit Hours:		18

Graduation Requirements

Minimum Certificate GPA	Minimum Overall GPA
-	3.000

- Minimum B- grade in all courses

Program Learning Outcomes

Graduates of this program will be able to:

1. Apply advanced mathematical techniques in areas such as algebra, geometry, discrete mathematics, combinatorics, probability and statistics to solve complex problems relevant to secondary and college-level teaching.
2. Construct rigorous mathematical proofs using standard methods like induction, contradiction and direct proof; and communicate mathematical reasoning clearly and effectively, both orally and in writing, at a level appropriate for college instruction.
3. Analyze how mathematical ideas have developed over time and historical context has shaped the discipline.
4. Explore and present mathematically rich, non-standard recreational topics that are accessible to advanced high school students.
5. Connect graduate-level content to high school and early college curricula, strengthening their ability to teach College Credit Plus (CCP) courses.

Full Description

The CCP Credentialing in Mathematics graduate certificate offers graduate coursework in mathematics for candidates interested in teaching at the college level. According to state requirements, in order to teach college-level courses, including College Credit Plus (CCP) courses, instructors must have a master's degree in the subject or a related field and have completed a minimum 18 graduate credit hours in the subject area. This certificate provides mathematics coursework for fulfilling the 18 graduate credit hour requirement for students who already have a master's degree (e.g., mathematics education or school administration).

Students who do not have a master's degree should enroll in the M.A. degree in Mathematics for Secondary School Teachers.