

# CERTIFICATE IN MATHEMATICS

---

## Department of Mathematics and Statistics

Dr. Thomas Wakefield  
618 Lincoln Building  
(330) 941-1395  
tpwakefield@ysu.edu

### Certificate Description

The Department of Mathematics and Statistics, responding to state requirements that College in High School mathematics teachers, adjunct faculty at colleges, and faculty at community colleges obtain at least 18 semester hours of mathematics at the graduate level, offers a Graduate Certificate in Mathematics. The certificate is an attractive option for recognizing those looking to improve their credentials and teach College in High School courses. In addition to teachers looking to strengthen their credentials and background in mathematics, the certificate is a viable option for students who seek to strengthen their mathematical background before pursuing graduate study in mathematically-intense disciplines such as economics and finance. The educational objectives of this additional option within the program are to strengthen the mathematical background and preparation of secondary mathematics educators who teach approved college-level mathematics courses in their high schools and to provide students a means to strengthen their graduate mathematical background without having to complete a graduate degree in mathematics.

### Admission Requirements

The admission standards for the Graduate Certificate in Mathematics are the following:

- The minimum admission standards of the College of Graduate Studies.
- An undergraduate cumulative grade point average of at least 3.0 in all undergraduate mathematics and statistics courses.
- A completed sequence in standard calculus including multivariable calculus.

### Certificate Requirements

The GCM requires 6 courses (18 semester hours) selected from our rotation of graduate course offerings in mathematics and statistics and completed with a 3.0 GPA. At least 12 of the hours of the certificate must be completed at the 6900-level. The student, in consultation with the Graduate Executive Committee, will submit a curricular plan for the certificate by deciding which mathematics and/or statistics graduate courses best meet his/her educational goals. Course substitutions must be approved by the Graduate Executive Committee within the Department of Mathematics and Statistics.