



## GRADUATE STUDIES FACT SHEET

### MATHEMATICS: MATHEMATICS EDUCATION

#### PROGRAM OF STUDY

The master of arts in mathematics at West Chester University offers a mathematics education option that is designed to facilitate one's development as a secondary school mathematics teacher, both professionally and academically. Course work will enhance a thorough understanding of mathematics, develop an appreciation of its innate beauty, and provide a working knowledge of its many applications. Candidates in this program will thoughtfully consider how students learn mathematics and how to communicate and connect mathematical ideas enthusiastically in a clear, thought-provoking manner.

The department tries to match students with faculty members whose interests are similar to theirs.

The courses in mathematics education are taught by professional mathematics educators who have many years of teaching experience, are published in their field, present papers, and conduct workshops and seminars at local, state, and national meetings of mathematics educators.

Professional mathematicians with advanced degrees from prestigious universities and with excellent teaching reputations teach the mathematics courses.

A mathematics education laboratory, equipped with mathematics manipulatives, state-of-the-art computers, and highly rated software packages, is available for use by graduate students.

During the fall, spring, and first summer session, courses are taught in the late afternoon or evening. In the second summer session, classes are held during the day.

#### THE CURRICULUM

The program requires the completion of 11, three-credit courses totaling 33

graduate credits. After completing the courses, students will be required to pass a comprehensive examination or write a thesis.

#### I. Mathematics Education (12 semester hours)

MTE 507 Foundations of Secondary Mathematics Education (3)

MTE 508 Junior High School Mathematics – Curriculum, Instruction, and Assessment (3)

MTE 512 Senior High School Mathematics – Curriculum, Instruction, and Assessment (3)

MTE 604 Research Seminar (3)

#### II. Mathematics (15 semester hours)

MAT 515 Algebra I (3)

MAT 521 Discrete Mathematics and Graph Theory (3)

MAT 532 Geometry I (3)

MAT 545 Real Analysis I (3)

STA 505 Mathematical Statistics I (3)

#### III. Mathematics Electives (6 semester hours)

#### ADMISSION REQUIREMENTS

Applicants should submit the following materials to the Office of Graduate Studies and Extended Education:

- Completed graduate application, including goals statement (apply online at [www.wcupa.edu/grad](http://www.wcupa.edu/grad))
- Official academic transcript(s) from all colleges and universities attended, demonstrating a GPA of 2.8 or better

- Scores from Graduate Record Exam (GRE)
- Scores from TOEFL (non-native speakers only); score of 79 on Internet-based exam or ILETS score of 6.5.
- Admission interview
- Evidence of a bachelor's degree with a mathematics/mathematics education major
- Two letters of recommendation

#### FOR MORE INFORMATION

Write: Office of Graduate Studies and Extended Education  
McKelvie Hall  
102 West Rosedale Avenue  
West Chester University  
West Chester, PA 19383

Call: 610-436-2943

Fax: 610-436-2763

E-mail: [gradstudy@wcupa.edu](mailto:gradstudy@wcupa.edu)

Web: [www.wcupa.edu/grad](http://www.wcupa.edu/grad)

Visit: [www.facebook.com/wcugrad](http://www.facebook.com/wcugrad)

*Or contact the department:*

Write: Dr. Gail Gallitano, Graduate Coordinator  
Department of Mathematics  
25 University Avenue  
West Chester University  
West Chester, PA 19383

Call: 610-436-2452

E-mail: [ggallitano@wcupa.edu](mailto:ggallitano@wcupa.edu)

#### ABOUT GRADUATE STUDIES

West Chester University offers high-quality graduate degrees in more than 70 disciplines or areas of study, as well as certificate and certification programs. The graduate studies program has grown remarkably since its introduction in 1960. West Chester

University's program is the largest within the 14 institutions in the Pennsylvania State System of Higher Education enrolling more than 2,100 graduate students.

Programs can be taken on a part-time basis, and most of the graduate classes are scheduled during late afternoons and evenings for the benefit of in-service teachers and other employed persons.

## ABOUT WEST CHESTER UNIVERSITY

A regional, public institution, West Chester University of Pennsylvania offers high-quality undergraduate and graduate degrees, as well as certification and certificate programs, in more than 100 subject areas. As the

second largest member of the State System of Higher Education, West Chester offers a full and rewarding educational experience as well as reasonable tuition.

With a rich heritage dating back to the 19th century, West Chester University was founded in 1871 as West Chester Normal School for the purpose of training teachers for the Commonwealth's newly established public schools. In 1960, West Chester State Teachers College expanded its programs to include liberal arts and graduate degrees and, as a result, dropped "Teachers" from its name. In 1983, West Chester State College became one of the 14 institutions in the State System of Higher Education. Along with its university status, the school acquired a new system of governance and the

opportunity to expand its degree programs.

Today, more than 15,400 graduate and undergraduate students, as well as 1,500 faculty and staff, study and work on the 406-acre campus. Situated in the Borough of West Chester, the campus is a picturesque mix of Gothic, Victorian, and modern architecture with pleasant, tree-shaded walks.

Strategically located at the center of the mid-Atlantic corridor, West Chester University is just 25 miles west of Philadelphia and 17 miles north of Wilmington, Del. The campus is convenient to major cultural institutions, recreational activities, and commercial businesses, many of which provide internship opportunities for WCU's students.

