Welcome

Central Michigan University’s Department of Mathematics offers a master’s degree program, a doctoral degree program, and a graduate certificate in Data Mining.

The Master of Arts in Mathematics prepares students for careers in business, industry, and government. It also retains enough flexibility to prepare students for teaching mathematics at the undergraduate level or to undertake doctoral work in mathematics.

The Data Mining Certificate is an interdisciplinary program for students interested in careers in business, industry, or government. The program has a partnership with SAS.

The Ph.D. degree is designed to prepare individuals for a career in college teaching and research, as well as other careers that require the knowledge of advanced mathematics. Course requirements follow national guidelines for such programs.

Programs of Study

Master of Arts

This program is for students who are interested in careers in business, industry, or government; teaching at the community college level; or pursuing doctoral degrees in mathematics. It is flexible and includes core courses that acquaint students with several types of applicable mathematics as it builds a foundation of fundamental ideas in pure mathematics.

Courses are required in analysis, algebra, statistics, computer science, and numerical analysis. Students must complete 30 hours of course work plus either a thesis or two projects in two fields of mathematics.

Graduate Certificate in Data Mining

This program is for students who are interested in careers related to the applications of data mining and analytical skills in business, industry, or government. It requires a successful completion of 15-18 hours of course work.

Courses are required in computer science, geographic information sciences, and statistics. Electives may be chosen from other sciences or from business. Students must complete 15 to 18 credit hours.

Ph.D. in Mathematics

This program is for students interested in teaching at the collegiate level. It features courses devoted to issues of teaching at the collegiate level, supervised teaching internships, and a dissertation in mathematics, statistics, or in areas related to the teaching of college mathematics.

In addition to two teaching internships and a dissertation, students must complete course work beyond the bachelor’s degree broadly distributed across the various areas of mathematics, statistics, and mathematics education.

Program Features and Faculty

Mathematics graduate program classes are small, and some master of arts and doctoral program courses are offered in the evening.

Mathematics student computer facilities include Macintosh and PC laboratories.

An active colloquium program features speakers who have varied research interests. There also is an applied mathematics group involved in research in polymer fluid dynamics and computational fluid mechanics. This group has links with other CMU science and engineering departments and with local industries.

Faculty research interests include:

- Algebra
- Algebraic geometry
- Applied Mathematics
- Approximation theory
- Combinatorics and graph theory
- Complex Analysis
- Differential geometry
- Functional analysis and operator theory
- Mathematics education
- Number theory
- Statistics
About Graduate Studies at CMU

Central Michigan University is classified as a Doctoral Research University and offers more than 70 graduate degree programs at the master’s, specialist’s, and doctoral levels.

The university’s 480-acre campus is accommodating, friendly, and conveniently located in Mount Pleasant, Michigan, a classic American university town.

Graduate Faculty

Mohamed Amezziane, Associate Professor, Ph.D., University of Central Florida, statistics.
James Angelos, Professor, Ph.D., Montana State University, approximation theory.
Ahmed Assaf, Professor, Ph.D., Technion University, combinatorics.
Debraj Chakrabarti, Assistant Professor, Ph.D., University of Wisconsin - Madison, analysis.
Chin-Yi Jean Chan, Associate Professor, Ph.D., University of Utah, commutative algebra and algebraic geometry.
Chin-I Cheng, Assistant Professor, Ph.D., University of Missouri- Columbia, statistics.
Kahadawala Cooray, Associate Professor, Ph.D., University of Nevada at Las Vegas, statistics.
John Daniels, Associate Professor, Ph.D., Western Michigan University, statistics.
Lisa DeMeyer, Professor, Ph.D., University of North Carolina at Chapel Hill, differential geometry.
Ana Dias, Associate Professor, Ph.D., Indiana University, mathematics education.
Donna Ericksen, Professor, Ph.D., Michigan State University, mathematics education.
Felix Famoye, Professor, Ph.D., University of Calgary, statistics.
Martha Frank, Associate Professor, Ph.D., Purdue University, mathematics education.
Sidney W. Graham, Professor, Ph.D., University of Michigan, number theory.
George Grossman, Associate Professor, Ph.D., University of Windsor, applied mathematics.
Yeonhyang Kim, Associate Professor, Ph.D., University of Wisconsin- Madison, analysis and approximation theory.
Douglas Lapp, Professor, Ph.D., The Ohio State University, mathematics education.
Carl Moun-Shen Lee, Professor, Ph.D., Iowa State University, statistics.
En-Bing Lin, Professor, Ph.D., John Hopkins University, applied and computational math and mathematical physics. (Chair)
Meera Mainkar, Assistant Professor, Ph.D., Tata Institute of Fundamental Research, differential geometry.
Tibor Marcinek, Associate Professor, Ph.D., Comenius University, mathematics education.
Sivaram K. Narayan, Professor, Ph.D., Purdue University, operator theory.
Sing-Cheong Ong, Professor, Ph.D., Dalhousie University, operator theory.
Christine M. Phelps, Associate Professor, Ph.D., University of Deleware, mathematics education.
Katrina Platek-Jimenez, Associate Professor, Ph.D., University of Arizona, mathematics education.
Leela Rakesh, Professor, Ph.D., Kanpur University, applied mathematics.

Fellowships and Assistantships

Graduate fellowships and graduate teaching assistantships are available. Also, a limited number of graduate research assistantships may be available, depending on current grant funding. Additional support may be available for graduate students who support the advancement of diversity in higher education.

Completed applications for fellowships and assistantships are due February 15, although late applications may be considered if positions are available.

Apply Online

www.grad.cmich.edu

For More Information

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