

DEPARTMENT OF MATHEMATICS

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Mathematics courses at the University are designed with the interests and needs of varying groups of students in mind.

Mathematics majors are available to those planning to pursue careers in secondary and middle grades education, as well as to those whose preparation is being directed toward positions in business and industry, or toward further work in mathematics at the graduate level. In addition, several courses are offered to meet the demands for the mathematical training of students whose major educational objectives are not directly related to mathematics. Mathematics majors are assigned faculty mentors/advisors from among the departmental faculty and are required to consult with these faculty members before each registration period.

When planning a program of study in this department, each student should be aware of the University's academic requirements and regulations contained in this catalog in the chapter "Academic Information." Specific attention should be given to the sub-sections in the chapter entitled (a) Academic Programs, (b) Colonnade Requirements, and (c) Academic Requirements and Regulations.

Some academic programs may require additional scholastic regulations and standards not specified in the catalog. To obtain a copy of these regulations, students should contact the department chair.

This department offers the following majors and minors:

- **Major:** Non-teacher certifiable major in mathematics (reference number 728)
- **Major:** Mathematics extended major for employment in industry and/or graduate studies in mathematics (reference number 528)
- **Major:** Mathematics major certifiable for teaching secondary level mathematics (reference number 728)
- **Major:** Middle grades mathematics (reference number 730)
- **Major:** Mathematical Economics (reference number 731)
- **Minor:** Mathematics (reference number 417)
- **Minor:** Applied Statistics (reference number 313)

Grades K-5 Certification

All students seeking grades K-5 certification must satisfy the Quantitative Reasoning course in the Foundations section of the Colonnade program prior to enrolling in the required courses: MATH 205, MATH 206, and MATH 308.

Degrees

- Mathematical Economics, Bachelor of Science (731) (<https://catalog.wku.edu/undergraduate/business/economics/mathematical-economics-bs/>)

- Mathematics, Bachelor of Arts (528) (<https://catalog.wku.edu/undergraduate/science-engineering/mathematics/mathematics-ba-528/>)
- Mathematics, Bachelor of Arts (728) (<https://catalog.wku.edu/undergraduate/science-engineering/mathematics/mathematics-ba/>)
- Middle Grades Mathematics, Bachelor of Science (730) (<https://catalog.wku.edu/undergraduate/science-engineering/mathematics/middle-grades-mathematics-bs/>)

Minors

- Applied Statistics, Minor (313) (<https://catalog.wku.edu/undergraduate/science-engineering/mathematics/applied-statistics-minor/>)
- Mathematics, Minor (Minor for Employment in Industry and/or Graduate Studies in Mathematics) (417) (<https://catalog.wku.edu/undergraduate/science-engineering/mathematics/mathematics-minor-employment-industry-graduate-studies/>)

Faculty Professor

Ferhan Atici PhD (Mathematics and Statistics), University of Nebraska-Lincoln, 1995
 Melanie A. Autin PhD (Statistics), University of South Carolina - Columbia, 2007
 Tilak Bhattacharya PhD (Mathematics), Purdue University Main Campus, 1988
 Molly Dunkum PhD (Mathematics), University of Kentucky, 2005
 Mikhail Khenner PhD (Physico-Mathematical Sciences), Perm State University-Russia, 1999
 Dominic A. Lanphier PhD (Mathematics), University of Minnesota-Twin Cities, 2000
 Hope L. Marchionda PhD (Curriculum and Instruction), Clemson University, 2006
 Ngoc B. Nguyen PhD (Mathematics), Bowling Green State University, 2010
 Thanh L. Nguyen PhD (Mathematics), Ohio University Main Campus, 2002

Associate Professor

Janice D. Brockman MS (Mathematics), Western Kentucky University, 2003
 Daniel L. Clark PhD (Mathematics Education), Michigan State University, 2016
 Kanita K. DuCloux PhD (Mathematics Education), University of Georgia, 2009
 Lee D. Emanuel MSED (Mathematics Academic), University of Nebraska-Kearney, 1992
 Nicholas C. Fortune PhD (Mathematics Education), North Carolina State University, 2018
 Samangi Munasinghe PhD (Mathematics), Texas A & M University, 2006
 Ahmet O. Ozer PhD (Applied Mathematics), Iowa State University, 2011
 Attila Por PhD (Mathematics), Eotvos Lorand University-Hungary, 2003
 Richard C. Schugart PhD (Applied Mathematics), North Carolina State University, 2005
 Lukun Zheng PhD (Applied Mathematics), University North Carolina Charlotte, 2015

Assistant Professor

Zachary S. Bettersworth PhD (Mathematics Education), Arizona State University-ALL, 2023

Pedagogical Associate Professor

Michelle A. Jackson MS (Mathematics, Math Education), Illinois State University, 1996

Michelle S. Jones MS (Mathematics), Western Kentucky University, 1998

Instructor I

Karen R. Hall MAE (Mathematics Education, Secondary Education), Western Kentucky University, 1997

Twyla D. Harris PhD (Curriculum and Instruction), University of Louisville, 2015

Instructor II

Erica C. Billingsley MS (Mathematics), Western Kentucky University, 2008

Leslie F. Plumlee MS (Mathematics), Western Kentucky University, 2005

Senior Instructor

Robin L. Ayers MAE (Mathematics Education, Secondary Education), Western Kentucky University, 1990