

DEGREES OFFERED

Bachelor of Arts in Mathematics

Bachelor of Science in Mathematics



UNIVERSITY of
MONTEVALLO

Department of Biology, Chemistry
& Mathematics

Harman Hall, Station 6480

Montevallo, AL 35115

For more information please contact:

Dr. Houston Byrd, Chair
byrdh@montevallo.edu

MATHEMATICS

UNIVERSITY of MONTEVALLO

MAJOR COURSE REQUIREMENTS FOR BOTH DEGREE PROGRAMS

- MATH 170 (Calculus I)
- MATH 171 (Calculus II)
- MATH 185 (Survey of Mathematics)
- MATH 247 (Intro to Discrete Mathematics)
- MATH 261 (Intro to Programming & Computer Algebra Systems)
- MATH 271 (Sequences, Series & Indeterminate Forms)
- MATH 272 (Calculus III)
- MATH 310 (Foundations of Mathematics)
- MATH 470 (Real Analysis)
- MATH 484 (Directed Reading in Mathematics)
- MATH 485 (Senior Seminar)
- 8 hours at the 200 level or above taken in one of the following: Biology, Chemistry *or* Physics

*Additional major course requirements vary based on the chosen degree.



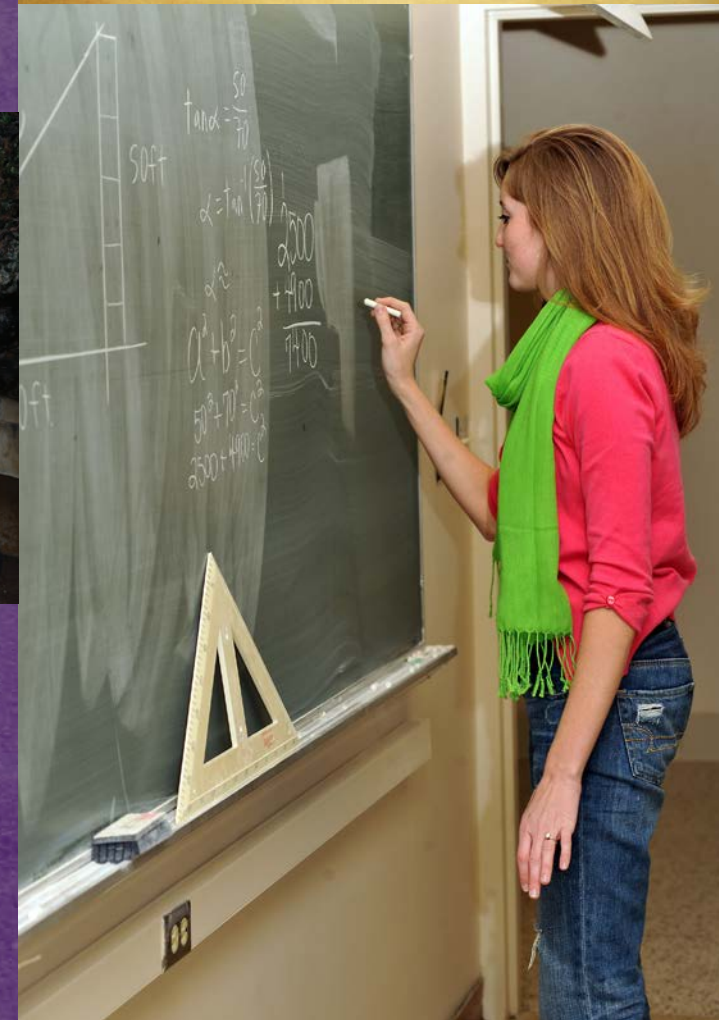
205-665-6480



montevallo.edu/mathematics



/BioChemMathUM



FACULTY

John Herron, Associate Professor, Ph.D. Applied Mathematics, University of North Carolina at Charlotte, Operator Theory

Kevin Hope, Associate Professor, Ph.D. Physics, University of Alabama at Birmingham, High-Pressure Materials Physics

Mary Maxwell, Assistant Professor, Ph.D. Mathematics, University of Alabama, Item Response Theory

Karolyn Morgan, Assistant Professor, Ph.D. Applied Mathematics, University of California at Berkeley, Numerical Analysis

Karli Morris, Associate Professor, Ph.D. Mathematics, Louisiana State University, Algebraic Number Theory

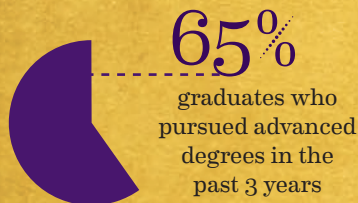
Michael Sterner, Professor, Ph.D. Mathematics, State University of New York, Albany, Complex Analysis

Benton Tyler, Associate Professor, Ph.D. Mathematics, University of Mississippi, Graph Theory/Combinatorics

Scott Varagona, Assistant Professor, Ph.D. Mathematics, Auburn University, Topology

FAST FACTS

The mathematics program offers advanced courses in areas designed for graduate programs as well as special topics courses in astronomy, number theory, game theory, special relativity, and quantum theory. This variety of courses permits students to build a concentration in a particular area of the discipline.



Students work one-on-one with a faculty member on an advanced topic for presentation as a senior thesis, providing further preparation for success in graduate school and career paths.

A variety of extracurricular activities are available through the gaming, math, chess and astronomy clubs, the latter providing access to UM's James Wylie Shepherd Observatory.

STUDENT RESEARCH

“Item Response Theory: Using Item Information to Reduce Test Length”

“A Careful Look at the Gamma Function”

“Tilings of Regular Polyhedra”

“Möbius Transformations and Applications”

“Elementary Hilbert Space Theory”

“Computational Investigation of Field-Induced Polymerization of Nitrogen in Nanotubes”

GRADUATES

David Skelton, B.S. Mathematics, 2009
Mathematics Instructor/Director of Faculty Development, Brown Mackie College

“The math department provided an extremely rigorous and in-depth look into many areas of mathematics, while simultaneously cultivating a love for mathematics and a sense of pride in my chosen profession.”

Heather Hardeman, B.S. Mathematics, 2012
Ph.D. student, University of Calgary

“Montevallo's math program is the best! It gave me a strong foundation in mathematics and the skills to build a strong support system that I needed to succeed in my graduate studies. I cannot talk this program up enough!”

Jessica Hairston, B.S. Mathematics, 2014
Mathematics Teacher, Collinsville High School

“The math program at Montevallo truly prepares you for any future you pursue in mathematics. The faculty does not only teach you math, but also critical thinking skills which are necessary for living everyday life! The mathematics program at UM is absolutely wonderful!”

STUDENT SUCCESS

Our students have been accepted to the following schools.

Ph.D. programs: Louisiana State University, State University of New York at Stony Brook, University of Alabama, University of Alabama at Birmingham, University of Florida, University of Mississippi, University of Tennessee at Chattanooga, Wake Forest University

Master's programs: Auburn University, Emory University, New York University Polytechnic School of Engineering, Savannah College of Art and Design, University of Alabama, University of Alabama at Birmingham, University of Alabama in Huntsville, University of Kentucky, University of Mississippi, University of Montevallo, University of Murcia Spain, University of West Florida, Wake Forest University

