Mathematics and Statistics is the science and art of pattern and idea; statistics is the science of collecting, analyzing, and making inferences from data. There is no area that does not require some form of mathematical or statistical thought. It is an integral part of the liberal arts education and is the foundation for many areas of study. In filling many roles at UW-La Crosse, the Department of Mathematics and Statistics serves a diverse group of students; we nurture all liberal arts students, give students a solid foundation from which to study both the natural and social sciences, provide the tools needed by students in professional programs, and cultivate mathematics and statistics majors. As disciplines, mathematics and statistics can be studied by themselves or in conjunction with other fields such as the biological and life sciences, physical sciences, engineering, and social sciences.

Students who graduate with degrees in mathematics or statistics pursue a wide variety of careers. Our math education majors are sought after to fill a huge need for quality math teachers in our country. Many of our statistics and applied math majors go on to jobs in industry as analysts, statisticians, and actuaries while others go on to professional programs such as law, medicine and health professions, or business. With degrees from our program, students have gone to graduate programs in mathematics, applied mathematics, statistics, engineering, and computer science.

The faculty of the Department of Mathematics and Statistics is committed to being excellent teacher-scholars. Members of the department are involved in research in areas of algebra, analysis, topology and geometry, statistics, applied mathematics, numerical analysis, education, and combinatorics and graph theory. This research is widely published in prestigious research journals, and many faculty have received numerous grants. Technology is integrated into both the teaching and research in the department. Many students participate in undergraduate research projects that result in publications and presentations at national conferences.

Mathematics and statistics are interesting and lively subjects. Mathematics has both an aesthetic and a practical appeal; the enjoyment of problem solving, abstract thinking, and structural beauty draws many to mathematics. Statistics helps us understand and describe phenomena in our world and to help us draw reliable conclusions about those phenomena. The challenge and satisfaction of using mathematics and statistics to solve real world problems provides an equally strong appeal. #UWLmath

Mathematics and Statistics credit by examination policy
The Department of Mathematics and Statistics awards credit by examination in MTH 150 College Algebra (4 cr.); MTH 151 Precalculus (4 cr.); MTH 207 Calculus I (5 cr.); and MTH 208 Calculus II (4 cr.). The exams may be taken by new first years and are scheduled for the second week of semester I. Students may not earn credit by examination in both MTH 150 and MTH 151. Credit for STAT 145 Elementary Statistics (4 cr.) will be granted to entering first years with a College Board Advanced Placement Statistics Examination score of 3 or better. Credit for MTH 207 will be granted to entering first years with a College Board Advanced Placement AB exam score of 4 or better. Entering first years with a score of 3 on the BC Calculus examination are awarded credit for MTH 207; students with a score of 4 or 5 on the BC Calculus examination are awarded credit for both MTH 207 and MTH 208.

Mathematics and Statistics retroactive credit policy
Students taking MTH 207 Calculus I, MTH 208 Calculus II, MTH 309 Linear Algebra with Differential Equations, or MTH 310 Calculus III: Multivariable Calculus, and earning a grade of "B" or better, will be given retroactive credit for MTH 151 Precalculus (4 cr.) provided that the student’s transcript shows no record of prior or concurrent enrollment in MTH 151, MTH 207, MTH 208, MTH 309, or MTH 310.

General education writing emphasis
This department incorporates a significant amount of writing through the required courses instead of identifying particular courses as writing emphasis courses. Students who complete a major in this department will fulfill the general education writing emphasis requirement (http://catalog.uwlax.edu/undergraduate/generaleducation/#generaleducationrequirementstext).

2018-19 Faculty/Staff
The following is the department's faculty and staff as of the publication date of this catalog. This list will not be updated again until the next catalog is published in June.

Professor
Robert F. Allen
Jeffrey Baggett
Barbara Bennie
Susan Kelly
Jennifer Kosiak
Rebecca LeDocq
James Peirce
David Reineke

Associate Professor
Douglas Baumann
Melissa Bingham
Tushar Das
Eric Eager
Abdulaziz Elfessi

Mathematics and Statistics Department (MTH/STAT)
Heather Hulett  
Karl Kattchee  
Andrew Matchett  
Jenni McCool  
Sherwin Toribio  
Todd Will  
Huiya Yan  

**Assistant Professor**  
Matthew Chedister  
Song Chen  
Whitney George  
Joshua Hertel  
Edward Kim  
David Liss  
Chad Vidden  
Nathan Warnberg  

**Lecturer**  
Benjamin Anderson  
William Schilla  
Judy Young  

**Associate Lecturer**  
Irina Andreeva-Cherveny  
George Cherveny  
Susan Gitter  
Phillip Loehmer  
Brett Townsend  
William Truttschel  

**Administrative Support**  
Julie Ahearn  

**Majors**  
- Mathematics major - BA (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-ba)  
- Mathematics major - BS (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-bs)  
- Mathematics major with applied emphasis - BS (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-applied-bs)  
- Mathematics education major (early adolescence-adolescence certification) - BS (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-education)  
- Statistics major - BS (http://catalog.uwlax.edu/undergraduate/mathematics/statistics-bs)  
- Statistics major with concentration in actuarial science - BS (http://catalog.uwlax.edu/undergraduate/mathematics/statistics-actuarial-science-bs)  
- Dual degree program in mathematics and engineering (http://catalog.uwlax.edu/undergraduate/mathematics/dual-degree-program)  
- Dual degree program in statistics and applied statistics (http://catalog.uwlax.edu/undergraduate/mathematics/dual-degree-program-statistics)  

**Minors**  
- Mathematics minor (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-minor)  
- Mathematics minor with education emphasis (http://catalog.uwlax.edu/undergraduate/mathematics/mathematics-minor-education)  
- Statistics minor (http://catalog.uwlax.edu/undergraduate/mathematics/statistics-minor)  

**Honors**  
- Mathematics honors program (http://catalog.uwlax.edu/undergraduate/mathematics/honors-program)