Mathematical Sciences

Department Head, Robert Mokwa

Welcome! It is my pleasure to share with you some exiting aspects about the Department of Mathematical Sciences at Montana State University. Our Department offers Bachelors, Masters and Doctoral degrees in key focus areas of mathematical sciences. Students from many disciplines take mathematics or statistics to strengthen their quantification and analytical foundation skills, in addition to students who pursue majors and minors in one of our focus areas. We have the largest instructional component of any department on campus — we truly embrace our role of providing the highest quality math learning experience to each and every student at Montana State!

Our faculty and staff take seriously the Department’s mission to provide an outstanding education to our students, to further knowledge and scholarship through research and creative activity, and to serve others by sharing our expertise. The Department offers a B.S. in Mathematics with options in mathematics, applied mathematics, mathematics teaching, and statistics; an M.S. in Mathematics with options in mathematics and mathematics education; an M.S. in Statistics; and a Ph.D. in Mathematics, a Ph.D. in Mathematics Education and a Ph.D. in Statistics.

We place a high priority in providing quality research opportunities for our students. Our faculty have strong national and international reputations for innovative research in a variety of topical areas. Research programs in pure and applied mathematics complement each other and are often applied to problems in science and engineering. Research in statistics encompasses a broad range of theoretical and applied topics, including interdisciplin ary work and statistical research directed toward solving practical problems. Mathematics education faculty are active in both qualitative and quantitative experimental research areas. Our faculty pursue and obtain extramural funding and regularly publish research results with student co-authors in leading refereed journals and technical conference venues.

Hand-in-hand with the research function is our service and consulting roles. The Department provides mathematical and statistical assistance to research scientists in other university departments and to schools, off-campus companies and government agencies. The Department is a leader in implementing statewide and national projects for mathematics teachers and we have a large distance-delivered masters degree program for K-12 teachers.

The demand for graduates with strong mathematical science skills is growing at an extraordinary rate as the range of positions that require mathematical abilities expands into many areas including engineering, physical sciences, social sciences, business, finance, medicine, national security and others. The Montana State Mathematical Sciences Department is an innovative leader in searching for new, high-impact methods to model and analyze massive amounts of data and apply quantitative skills, statistics and computational reasoning to solving complex systems and challenging problems of the twenty-first century. These are remarkable times with remarkable opportunities for students interested in the mathematical sciences — we encourage you to further explore our offerings and to contact us to learn more.

We’d love to hear from you — whether your interest is in participating in one of our many degree programs, learning more about our cutting edge math learning center and student success coordinators, working with statisticians in our statistical consulting center, or collaborating with our exceptional scholars and researchers. Please consider this an open invitation to contact me or any of our faculty and staff.

Sincerely,

Robert L. Mokwa
Department Head
Mathematical Sciences — Montana State University