Mathematics, Statistics and Computer Science (MSCS)

Chairperson: Rebecca L. Sanders, Ph.D.
Department of Mathematics, Statistics and Computer Science website (http://www.marquette.edu/mscs/grad.shtml)

Program Overview
The Department of Mathematics, Statistics and Computer Science offers a range of master's and doctoral programs in accord with the breadth of the disciplines it encompasses. Bulletin entries for each of the programs described below may be found by exploring the options provided on this page. Further information about the programs can be found on the departmental website (http://www.marquette.edu/mscs/grad.shtml).

Degrees Offered

M.S. in Applied Statistics (http://www.marquette.edu/mscs/grad-applied-statistics.shtml)
The applied statistics program is focused on producing graduates who can deal with big data, perform statistical analysis to detect hidden patterns in data, perform risk factor analysis and perform predictive analysis. The program is intended for students who have a mathematical background (not necessarily having a degree in mathematics or statistics) that want to develop strong data analytic skills to solve complex, real world problems. In addition to course work, students also take a statistical consulting practicum course. The practicum is intended to give students practical, hands-on statistical consulting training.

M.S. in Bioinformatics (http://bulletin.marquette.edu/grad/programs/mathstatsandcomputerscience/bioinformatics)
A joint program between Marquette University and Medical College of Wisconsin, the bioinformatics specialization is geared toward creating computing applications for the biological sciences.

M.S. and Ph.D. in Computational Sciences (http://bulletin.marquette.edu/grad/programs/mathstatsandcomputerscience/computationalsciences)
Our computational sciences program is designed to equip graduates with a distinctive blend of theoretical and computational skills, for employment in industry, research laboratories and institutions of higher education. A distinctive feature of our program is that all core aspects of a student’s program of study, constituting in general the first two years of study, are undertaken within our one interdisciplinary department. While the bulk of their course work will be undertaken in this department, their research topics may range across the computational aspects of a broad spectrum of disciplines.

M.S. in Computing (http://bulletin.marquette.edu/grad/programs/mathstatsandcomputerscience/computing)
The computing program is a professional (terminal) master's degree that spans the study of computer science, computer engineering, software engineering, information technology and information systems. It is designed for individuals who wish to enhance their computing skill set whether they are current practitioners or interested in moving into the computing field.

M.S. in Mathematics Education: Mathematics for Secondary School Teachers (MSST) (http://bulletin.marquette.edu/grad/programs/mathstatsandcomputerscience/mscs)
The mathematics for secondary school teachers specialization provides a master of science degree for mathematics teachers who wish to enhance their practice by deepening their understanding of mathematics and mathematics education beyond the bachelor’s level.