

School of Natural Sciences and Mathematics

Master of Science in Actuarial Science



Curriculum

Actuaries are professionals who help businesses to assess the risk of certain events occurring. They assemble and analyze data to estimate the probability and likely cost of the occurrence of an event such as death, sickness, injury, disability or loss of property. The Master of Science in Actuarial Science degree program is administered through the Department of Mathematical Sciences. The objective of the program is to educate future leaders of the actuarial industry with training in actuarial theory and methods in a wide spectrum of actuarial applications involving probabilistic and statistical models.

All students are prepared to take five actuarial preliminary exams. Students who have not taken classes required for Validation of Educational Experience (VEE) credits in statistics, finance and economics will have such an opportunity. Upon acquiring relevant proficiency in mathematics — particularly of probability, statistics, decision theory and financial mathematics— together with knowledge of insurance, passing five actuarial exams and obtaining three VEE credits, the graduates of the program can be expected to be able to work as actuaries in insurance, consulting, finance, government and emerging markets.

Career Options

Graduates of the program seek positions such as: professionals in insurance industry, government, consulting, financial or accounting firms. The job of an actuary consistently appear among the top jobs in the rankings of 200 jobs by CareerCast's *Jobs Rated Almanac* based upon factors such as work environment, income, hiring outlook and stress.

Degree Program

The MS in Actuarial Science requires the completion of a minimum of 36 semester credit hours. For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.



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