M.S. in Actuarial Science

The Master of Science in Actuarial Science requires 36 semester hours of graduate credit. The program prepares students for actuarial careers by emphasizing the theory that underlies risk processes and the application of this theory to practical problems of insurance pricing and management. It also helps them learn material that is in the five preliminary examinations given by the Society of Actuaries.

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<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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| 1    | STAT:4100 Mathematical Statistics I<br>ACTS:3080 Mathematics of Finance I<br>ACTS:4130 Quantitative Methods for Actuaries<br>
Write Exams P and FM | STAT:4101 Mathematical Statistics II<br>ACTS:4180 Life Contingencies I<br>ACTS:4380 Mathematics of Finance II<br>
Write Exam MFE |
| 2    | STAT:4510 Regression, Time Series and Forecasting<br>ACTS:4280 Life Contingencies II<br>ACTS:6160 Topics in Actuarial Science<br>
Write Exam MLC | ACTS:6480 Loss Distributions<br>ACTS:6580 Credibility and Survival Analysis<br>FIN:3300 Corporate Finance<br>
Write Exam C |

Students who have already completed a course equivalent to STAT:4100 (22S:153) Mathematical Statistics I can finish all coursework requirements in three semesters by taking four courses each semester. Here is a sample schedule.

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| 1    | STAT:4101 Mathematical Statistics II<br>ACTS:3080 Mathematics of Finance I<br>ACTS:4130 Quantitative Methods for Actuaries<br>An approved elective<br>
Write Exams P and FM | ACTS:4180 Life Contingencies I<br>ACTS:4380 Mathematics of Finance II<br>ACTS:6480 Loss Distributions<br>ACTS:6580 Credibility and Survival Analysis<br>
Write Exam MFE and C |
| 2    | STAT:4510 Regression, Time Series and Forecasting<br>ACTS:4280 Life Contingencies II<br>ACTS:6160 Topics in Actuarial Science<br>An approved elective<br>
Write Exam MLC | |