ACTUARIAL SCIENCE, MS

for the Master of Science in Actuarial Science

department chair: Jeremy Tyson
director of graduate studies: Lee DeVille

overview of grad college admissions & requirements:
overview of grad college admissions & requirements: https://grad.illinois.edu/admissions/apply (https://grad.illinois.edu/admissions/apply/)
department website: http://www.math.illinois.edu
program website: https://math.illinois.edu/admissions/graduate-program-mathematics-admissions/#MS-ActSci
department faculty: https://math.illinois.edu/research/faculty-research/actuarial-science
department office: 273 Altgeld Hall, 1409 West Green Street, Urbana, IL 61801
phone: (217) 333-5749
e-mail: math-grad@illinois.edu

The Master of Science in Actuarial Science prepares students with quantitative undergraduate degrees for actuarial professional careers. The program offers a unique blend of coursework for both professional training and advanced techniques and opportunities for experiential learning.

Graduate Degree Programs in Mathematics

Actuarial Science, MS (p. 1)
Applied Mathematics, MS (http://catalog.illinois.edu/graduate/las/applied-mathematics-ms/)
Mathematics, MS (http://catalog.illinois.edu/graduate/las/mathematics-ms/)
Mathematics, PhD (http://catalog.illinois.edu/graduate/las/mathematics-phd/)

optional concentrations:
Actuarial Science & Risk Analytics (http://catalog.illinois.edu/graduate/las/mathematics-phd/actuarial-science-risk-analytics/)
Computational Science and Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/)

Teaching of Mathematics, MS (http://catalog.illinois.edu/graduate/las/teaching-mathematics-ms/)

Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Two courses chosen from the following:</td>
<td>8</td>
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<tr>
<td>ASRM 510</td>
<td>Financial Mathematics</td>
<td></td>
</tr>
<tr>
<td>ASRM 561</td>
<td>Loss Data Analytics &amp; Credibility</td>
<td></td>
</tr>
<tr>
<td>ASRM 569</td>
<td>Extreme Value Theory and Catastrophe Modeling</td>
<td></td>
</tr>
<tr>
<td>ASRM 575</td>
<td>Life Insurance and Pension Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 563</td>
<td>Risk Modeling and Analysis</td>
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Electives chosen in consultation with the faculty advisors. These electives may include additional courses from the list above.

Total Hours 32

Other Requirements

Requirement Description
MATH 405, MATH 406, MATH 415, MATH 444, and MATH 499 cannot be counted toward this graduate degree.
Minimum hours required within ASRM: 20
Minimum GPA: 3.0
Minimum 500-level hours required overall: 12

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The Thesis Research (min/max applied toward degree) 4

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For additional details and requirements refer to the department’s Guide to Graduate Studies (https://files.webservices.illinois.edu/7917/GraduateGuide18-19.pdf) and the Graduate College Handbook (https://grad.illinois.edu/gradhandbook/).