ACTUARIAL SCIENCE, BSLAS

for the degree of Bachelor of Science in Liberal Arts and Sciences Major in Actuarial Science

program website: Actuarial Science (https://math.illinois.edu/academics/actuarial-science/)  
program faculty: Actuarial Science Faculty (https://math.illinois.edu/research/faculty-research/actuarial-science/)  
department website: https://math.illinois.edu/  
overview of college admissions & requirements: Liberal Arts & Sciences (http://catalog.illinois.edu/schools/las/academic-units/)  
college website: https://las.illinois.edu/  
email: ASRM-advising@illinois.edu

This major is sponsored by the Department of Mathematics, and is an interdisciplinary subject involving mathematics, statistics, and financial economics. It is designed to prepare students to enter the actuarial profession, as well as to provide a background in quantitative finance and risk management.

Undergraduate programs in Mathematics
Actuarial Science, BSLAS (p. 1)
Mathematics, BSLAS (http://catalog.illinois.edu/undergraduate/las/mathematics-bslas/#text)
Mathematics & Computer Science, BSLAS (http://catalog.illinois.edu/undergraduate/eng_las/mathematics-computer-science-bslas/)

for the degree of Bachelor of Science in Liberal Arts & Sciences, Major in Actuarial Science

Departmental distinction: To qualify for distinction, the student must have a grade point average in ASRM courses of at least 3.25, and pass at least two examinations offered by the professional actuarial societies. To qualify for high or highest distinction, the student must have passed at least three professional exams, with highest distinction going to those whose grade point averages in mathematics are at least 3.75. Finance courses and additional professional exams may also be given consideration in close decisions.

General education: Students must complete the Campus General Education (https://courses.illinois.edu/) requirements including the campus general education language requirement.
Minimum required major and supporting course work: normally equates to 58-61 hours including 32-33 hours of actuarial courses beyond calculus.
Twelve hours of 300- or 400-level courses in the major must be taken on this campus.
Minimum hours required for graduation: 120 hours. Students will complete 40 hours of upper division coursework (these hours can be drawn from all elements of the degree).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td>11-12</td>
</tr>
<tr>
<td>or MATH 221</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td></td>
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<tr>
<td>MATH 241</td>
<td>Calculus III (or equivalent)</td>
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Select one of the following:  
CS 101  Intro Computing: Engrg & Sci  
CS 105  Intro Computing: Non-Tech  
CS 125  Introduction to Computer Science  
ASRM 210  Theory of Interest (formerly MATH 210)  
ASRM 401  Actuarial Statistics I  
ASRM 402  Actuarial Statistics II  
ASRM 406  Linear Algebra with Financial Applications (formerly MATH 410)  
ASRM 450  Methods of Applied Statistics  
Select four of the following:  
ASRM 409  Stochastic Processes for Finance and Insurance  
ASRM 410  Investments and Financial Markets (formerly MATH 476)  
ASRM 451  Basics of Statistical Learning  
ASRM 461  Loss Models (formerly MATH 478)  
ASRM 469  Casualty Actuarial Mathematics (formerly MATH 479)  
ASRM 471  Life Contingencies I  
ASRM 472  Life Contingencies II (formerly MATH 472)  
Select an additional course from the above list or ASRM 499  
FIN 221  Corporate Finance  
Select three additional courses from:  
ACCY 200  Fundamentals of Accounting  
ECON 302  Inter Microeconomic Theory  
ECON 303  Inter Macroeconomic Theory  
FIN 230  Introduction to Insurance  
FIN 300  Financial Markets  
FIN 321  Advanced Corporate Finance  
FIN 431  Property-Liability Insurance  
FIN 432  Managing Fin Risk for Insurers  
FIN 434  Employee Benefit Plans  
Total Hours minimum 58

Information listed in this catalog is current as of 02/2022