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>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus through:</td>
<td>11-12</td>
<td></td>
</tr>
<tr>
<td>MATH 220</td>
<td>Calculus</td>
<td></td>
</tr>
<tr>
<td>or MATH Calculus I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>Calculus II</td>
<td></td>
</tr>
<tr>
<td>MATH 241</td>
<td>Calculus III (or equivalent)</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 3
- CS 101 Intro Computing: Engrg & Sci
- CS 105 Intro Computing: Non-Tech
- CS 125 Intro 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: 12-13
- 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

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