Undergraduate Minor Program in Actuarial Mathematics

Except for those studying the Statistics and Financial Mathematics Track of the BSc program in Mathematics, any undergraduate student with an overall CGA of 1.85 or above may enroll in the Actuarial Mathematics Minor Program. Students must declare their intention to enroll in the Minor Program no earlier than the first regular term of their second year of study but no later than the last day of the add/drop period in the first regular term of their final year of study. Students who wish to withdraw from the Minor Program should apply before the last day of the add/drop period in the first regular term of their final year of study.

To graduate with a minor in Actuarial Mathematics, students must have enrolled in the Minor Program, complete a minimum total of 18 credits and all of the minor requirements, as well as the requirements of the major program of study; and have attained an average grade point of at least 1.5 in courses taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program. Courses accepted for credit transfer must normally be at a level equivalent to courses coded above 1600.

Out of the total credits required by the minor program, at least 9 credits should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement. Courses used to fulfill the requirements of the Minor Program in Mathematics cannot be reused to count towards this Minor Program.

Required Course(s)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit(s)</th>
<th>Attained</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2511</td>
<td>3</td>
<td>Fundamentals of Actuarial Mathematics</td>
</tr>
</tbody>
</table>

Note: Students admitted in 2014-15 or before who have completed MATH 2411, MATH 2421, and MATH 3423 may request to use one of the three courses to replace MATH 2511 and the remaining two to fulfill the elective requirement.

Elective(s)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit(s)</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2411</td>
<td>4</td>
<td>Applied Statistics</td>
</tr>
<tr>
<td>MATH 2421</td>
<td>4</td>
<td>Probability</td>
</tr>
<tr>
<td>MATH 2431</td>
<td>4</td>
<td>Honors Probability</td>
</tr>
<tr>
<td>MATH 3423</td>
<td>3</td>
<td>Statistical Inference</td>
</tr>
</tbody>
</table>

List 1 - Foundation Electives (Students may request to replace MATH 2411 by IELM 2510, ISOM 2500, or LIFS 3150; and MATH 2421 by ELEC 2600 or ISOM 3540.)
List 2 - Advanced Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 4426</td>
<td>Survival Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4427</td>
<td>Loss Models and Credibility Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4511</td>
<td>Quantitative Methods for Fixed Income Derivatives</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4512</td>
<td>Fundamentals of Mathematical Finance</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4513</td>
<td>Life Contingencies Models and Insurance Risk</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4514</td>
<td>Financial Economics in Actuarial Science</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4825</td>
<td>Special Topics in Actuarial Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>RMBI 4220</td>
<td>Life Contingencies Models and Insurance Risk</td>
<td>3</td>
</tr>
</tbody>
</table>