

(For all students in the Program)

## Undergraduate Minor Program in Actuarial Mathematics

Except for those studying the Financial and Actuarial 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.

### Minor Requirements

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.

Students may use no more than 9 credits earned from courses offered in self-paced online delivery mode to satisfy the graduation requirements of a degree program. This 9-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

### Required Course(s)

			<b>Credit(s) attained</b>
MATH	2511	Fundamentals of Actuarial Mathematics	3

### Elective(s)

			<b>Minimum credit(s) required</b>
MATH/RMBI		Actuarial/Mathematics Electives (5 courses from the specified elective list, of which 2 courses must be taken from the list of Foundation Electives and 3 courses from the list of Advanced Electives)	15

List 1 - Foundation Electives (Students may request to replace MATH 2411 by IEDA 2540, ISOM 2500, or LIFS 3150; and MATH 2421 by ELEC 2600, IEDA 2520 or ISOM 3540.)

MATH	2411	Applied Statistics	4
MATH	2421	Probability	4
MATH	2431	Honors Probability	4
MATH	3423	Statistical Inference	3

List 2 - Advanced Electives

MATH	4426	Survival Analysis	3
MATH	4427	Loss Models and their Applications	3

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MATH	4428**	Bayesian Analysis and Credibility Theory	3
MATH	4429	Credibility Theory and its Applications	3
MATH	4511	Quantitative Methods for Fixed Income Derivatives	3
MATH	4512	Fundamentals of Mathematical Finance	3
MATH	4513	Life Contingencies Models and Insurance Risk	3
MATH	4514	Financial Economics in Actuarial Science	3
MATH	4515	Statistical and Computational Methods in Financial Mathematics	3
MATH	4825	Special Topics in Actuarial Mathematics	3
RMBI	4220	Life Contingencies Models and Insurance Risk	3

*\*\*Remarks on course(s):*

- MATH 4428: The course was last offered in 2019-20 and was deleted subsequently.