

# MATHEMATICS, ACTUARIAL SCIENCE, MINOR

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(Code 180-406)

This minor is intended to provide students with actuarial skills useful in business areas such as insurance and financial services. The coursework will prepare the student for at least two actuarial professional examinations.

Code	Title	Credits
Twenty-four semester credits, including:		
MATH 114	Calculus I	4
MATH 215	Calculus II	4
MATH 216	Calculus III	4
MATH 346	Introduction to Probability	4
MATH 347	Mathematical Statistics	4
MATH 350	Introduction to Financial Mathematics	4
<b>Total Credits</b>		<b>24</b>

MATH 450, MATH 460, and MATH 470, though not required, may be taken with department permission.

## Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- Apply a broad range of perspectives, including numerical, graphical, algebraic, analytical and verbal, to effectively connect and communicate mathematical ideas.
- Apply probability methods to describe random behavior.
- Use interest theory techniques to value deterministic cash flows.
- Apply both probability and theory of interest concepts to model and solve actuarial problems involving contingent cash flows.