

# ACTUARIAL MATHEMATICS AND STATISTICS, CERTIFICATE

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Requirements for an undergraduate certificate may be completed at any campus location offering the specified courses for the certificate.

## Program Description

Designed to prepare students for a career as an actuary. Students completing the certificate are prepared to pass the P/1 (Probability), FM/2 (Financial Mathematics) examination and would obtain via credit for economic, corporate finance and applied statistical methods topics once a second actuarial examination is passed. It is divided with mathematical and statistical prerequisites, upper-level statistics, and finance/economics courses. Requires 31 credit hours and can be completed concurrently with a Penn State degree or via continuing education.

## What is Actuarial Mathematics and Statistics?

Actuarial science is an interdisciplinary study that combines mathematics, probability theory, statistics, finance, economics, and computer science. Actuaries study and evaluate risk, often in the insurance and finance sectors.

## You Might Like This Program If...

- You enjoy working with numbers and data, both scientific and financial.
- You like not only mathematics but also business and computing.
- You have strong communication skills.
- You are comfortable working on a cross-discipline team.