

ACTUARIAL MATHEMATICS, MINOR

Actuarial Science stands at the intersection of risk and money. Actuaries use their knowledge of mathematics and probability theory to define, analyze and solve complex business, financial and social problems. Actuaries evaluate individual and corporate risks, and design financially sound insurance and pension plans. Graduates from the University of Pennsylvania with an Actuarial Mathematics Minor are expected to be in great demand by the insurance and banking industry.

For more information: <https://www.math.upenn.edu/undergraduate/math-majors-and-minors/minor-actuarial-mathematics> (<https://www.math.upenn.edu/undergraduate/math-majors-and-minors/minor-actuarial-mathematics/>)

| Code | Title | Course Units |
|-------------------------------------|---|--------------|
| Minor Requirements | | |
| MATH 2400 | Calculus, Part III | 1 |
| Select one of the following: | | 1 |
| MATH 3200 | Computer Methods in Mathematical Science I | |
| MATH 5300 | Mathematics of Finance | |
| Other with permit | | |
| STAT 4300 | Probability | 1 |
| STAT 4310 | Statistical Inference | 1 |
| STAT 4510 | | 1 |
| STAT 4520 | | 1 |
| STAT 4530 | | 1 |
| <i>Choose one of the following:</i> | | <i>7</i> |
| BEPP 3220 | Business Insurance and Estate Planning. | |
| STAT 4350 | Forecasting Methods for Management | |
| STAT 4700 | Data Analytics and Statistical Computing | |
| STAT 4710 | Modern Data Mining | |
| STAT 4050 & STAT 4220 | Statistical Computing with R and Predictive Analytics for Business | |
| Total Course Units | | 8 |

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.
