Applied Mathematics Microcredentials

An applied mathematics microcredential equips participants with the necessary skills to enter or advance their professional careers in fields such as algorithm design, software development, medical research, data analysis, finance, banking, and insurance, or continue their study at a graduate level in applied mathematics, financial mathematics, computer science or related fields.

Computational Mathematics

- MTH 270: Introduction to Mathematical Computing
- MTH 422: Numerical Methods
- MTH 400: Problem Solving Seminar

Financial Mathematics

- MTH 246: Introduction to Financial Mathematics
- MTH 346: Quantitative Finance
- MTH 446: Financial Engineering

Data Analytics

- MTH 360: Applied Probability and Statistics
- MTH 380: Experimental Design
- MTH 420: Statistical Data Mining

Students in the Applied Mathematics program may fulfill the Mathematics Upper-Division courses requirement by enrolling in one or more of the microcredentials. Students from other programs, minoring in Applied Mathematics, may also take the Calculus sequence courses (MTH 150, MTH 151, MTH 252 or MTH 130, MTH 236, MTH 322) plus the three courses in one of the microcredentials. This gives students an opportunity to attain a specific skill in addition to the minor.