

Microcredentials

in

Applied Mathematics

The Department of Mathematics offers microcredentials in three areas of Applied Mathematics-Computational Mathematics, Data Analytics, and Financial Mathematics. Each microcredential consists of three courses.

Computational Mathematics

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

Data Analytics

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

Financial Mathematics

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

These microcredentials equip 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/or insurance, or continue their study at a graduate level in applied mathematics, financial mathematics, computer science or related fields.

- 1. Applied Mathematics majors may select one or more microcredentials to fulfill the mathematics upper division elective and/or upper division elective requirements.
- 2. Students minoring in Applied Mathematics may choose one of the microcredentials to satisfy the three additional required mathematics courses in addition to the Calculus sequence (MTH 150, MTH 151, MTH 252 or MTH 130, MTH 236, MTH 322. This allows students to attain a specific skill in addition to the minor.
- 3. Professionals and students (including non-matriculated) with a grade of C or better in Calculus I may seek these microcredentials.

For more information, please visit

or

https://www.farmingdale.edu/provost/microcredentials/index.shtml or contact

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